

# ALABAMA

## Science and Engineering Profile

	Alabama	U.S.	Rank		Alabama	U.S.	Rank
Doctoral scientists, 1993	4,402	430,332	28	Total R&D performance, 1993 (millions)	\$1,967	\$161,427	21
Doctoral engineers, 1993	1,228	81,293	20	Industry R&D, 1993 (millions)	\$833	\$117,622	25
S&E doctorates awarded, 1995	253	26,482	30	Academic R&D, 1994 (millions)	\$296	\$20,573	25
of which, in life sciences	39%	24%		of which, in life sciences	67%	55%	
in engineering	22%	23%		in engineering	17%	16%	
in psychology	12%	13%		in physical sciences	8%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	405	36,143	24	expenditures, 1993 (millions)	\$2,715	\$163,994	21
S&E graduate students, 1994				Number of SBIR awards, 1990-94	277	18,023	17
in doctorate-granting institutions	6,383	438,694	22	Patents issued to state residents, 1995	282	55,717	33
Population, 1995 (000s)	4,253	262,755	22	Gross state product, 1992 (billions)	\$78.1	\$5,994.1	24
Civilian labor force, 1995 (000s)	2,062	132,281	23	of which, agriculture	2%	2%	
Personal income per capita, 1995	\$18,781	\$22,788	42	manufacturing, mining, construction	27%	23%	
Federal spending				transportation, communication, utilities	10%	9%	
Total expenditures, 1995 (millions)	\$22,719	\$1,326,294	19	wholesale and retail trade	15%	16%	
R&D obligations, 1994 (millions)	\$1,818	\$65,654	13	finance, insurance, real estate	14%	18%	
				services	16%	20%	
				government	16%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in Alabama by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	1,818,354	775,544	0	833,531	181,735	23,463	4,081	13
<b>Department of Agriculture</b>	16,133	4,637	0	0	11,388	0	108	30
<b>Department of Commerce</b>	1,034	558	0	15	421	0	40	35
<b>Department of Defense</b>	844,263	435,053	0	387,600	20,107	1,503	0	13
<b>Department of Energy</b>	19,575	0	0	17,000	2,575	0	0	26
<b>Dept. of Health &amp; Human Services</b>	132,044	0	0	1,474	111,047	18,928	595	21
<b>Department of the Interior</b>	8,837	7,117	0	535	1,185	0	0	21
<b>Department of Transportation</b>	3,416	1,231	0	737	159	0	1,289	30
<b>Environmental Protection Agency</b>	5,810	0	0	3,366	420	0	2,024	17
<b>Nat'l Aeronautics &amp; Space Admin.</b>	776,532	326,948	0	422,674	23,973	2,912	25	4
<b>National Science Foundation</b>	10,710	0	0	130	10,460	120	0	34
<b>State rank</b>	13	5	na	10	20	19	18	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# ALASKA

## Science and Engineering Profile

	Alaska	U.S.	Rank		Alaska	U.S.	Rank
Doctoral scientists, 1993	1,086	430,332	49	Total R&D performance, 1993 (millions)	\$130	\$161,427	46
Doctoral engineers, 1993	97	81,293	50	Industry R&D, 1993 (millions)	\$14	\$117,622	49
S&E doctorates awarded, 1995	19	26,482	50	Academic R&D, 1994 (millions)	\$76	\$20,573	41
of which, in life sciences	37%	24%		of which, in environmental sciences	47%	7%	
in environmental sciences	21%	3%		in life sciences	24%	55%	
in engineering	11%	23%		in physical sciences	20%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	4	36,143	51	expenditures, 1993 (millions)	\$345	\$163,994	49
S&E graduate students, 1994				Number of SBIR awards, 1990-94	3	18,023	49
in doctorate-granting institutions	627	438,694	51	Patents issued to state residents, 1995	39	55,717	50
Population, 1995 (000s)	604	262,755	48	Gross state product, 1992 (billions)	\$26.0	\$5,994.1	41
Civilian labor force, 1995 (000s)	302	132,281	49	of which, agriculture	2%	2%	
Personal income per capita, 1995	\$24,182	\$22,788	11	manufacturing, mining, construction	38%	23%	
Federal spending				transportation, communication, utilities	13%	9%	
Total expenditures, 1995 (millions)	\$4,198	\$1,326,294	46	wholesale and retail trade	8%	16%	
R&D obligations, 1994 (millions)	\$157	\$65,654	38	finance, insurance, real estate	13%	18%	
				services	10%	20%	
				government	17%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in Alaska by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	157,317	64,966	0	47,962	42,593	199	1,597	38
<b>Department of Agriculture</b>	7,768	6,026	0	0	1,742	0	0	40
<b>Department of Commerce</b>	32,457	30,353	0	0	1,962	0	142	9
<b>Department of Defense</b>	15,626	4,437	0	646	10,543	0	0	41
<b>Department of Energy</b>	47,178	0	0	46,705	473	0	0	20
<b>Dept. of Health &amp; Human Services</b>	2,911	605	0	0	1,747	199	360	49
<b>Department of the Interior</b>	26,240	23,545	0	611	2,084	0	0	5
<b>Department of Transportation</b>	1,145	0	0	0	50	0	1,095	43
<b>Environmental Protection Agency</b>	0	0	0	0	0	0	0	na
<b>Nat'l Aeronautics &amp; Space Admin.</b>	12,664	0	0	0	12,664	0	0	28
<b>National Science Foundation</b>	11,328	0	0	0	11,328	0	0	32
<b>State rank</b>	38	27	na	32	38	51	40	

Federal R&D obligations are as reported by funding agencies.

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SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# ARIZONA

## Science and Engineering Profile

	Arizona	U.S.	Rank		Arizona	U.S.	Rank
Doctoral scientists, 1993	4,849	430,332	27	Total R&D performance, 1993 (millions)	\$1,608	\$161,427	24
Doctoral engineers, 1993	1,323	81,293	18	Industry R&D, 1993 (millions)	\$1,042	\$117,622	22
S&E doctorates awarded, 1995	455	26,482	20	Academic R&D, 1994 (millions)	\$343	\$20,573	20
of which, in engineering	24%	23%		of which, in life sciences	38%	55%	
in life sciences	20%	24%		in physical sciences	32%	10%	
in physical sciences	16%	14%		in engineering	12%	16%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	400	36,143	25	expenditures, 1993 (millions)	\$1,728	\$163,994	30
S&E graduate students, 1994				Number of SBIR awards, 1990-94	266	18,023	19
in doctorate-granting institutions	7,661	438,694	19	Patents issued to state residents, 1995	999	55,717	18
Population, 1995 (000s)	4,218	262,755	23	Gross state product, 1992 (billions)	\$74.1	\$5,994.1	26
Civilian labor force, 1995 (000s)	2,120	132,281	21	of which, agriculture	2%	2%	
Personal income per capita, 1995	\$20,421	\$22,788	36	manufacturing, mining, construction	19%	23%	
Federal spending				transportation, communication, utilities	8%	9%	
Total expenditures, 1995 (millions)	\$20,705	\$1,326,294	22	wholesale and retail trade	17%	16%	
R&D obligations, 1994 (millions)	\$795	\$65,654	19	finance, insurance, real estate	18%	18%	
				services	21%	20%	
				government	15%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in Arizona by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	795,129	165,033	28,271	423,935	165,392	9,555	2,943	19
<b>Department of Agriculture</b>	20,065	13,830	0	0	6,235	0	0	25
<b>Department of Commerce</b>	1,064	0	0	5	470	0	589	34
<b>Department of Defense</b>	559,383	137,287	0	407,166	14,930	0	0	17
<b>Department of Energy</b>	5,854	0	0	400	5,454	0	0	39
<b>Dept. of Health &amp; Human Services</b>	72,564	1,850	0	2,287	59,661	7,791	975	27
<b>Department of the Interior</b>	11,268	8,193	0	1,652	1,273	0	150	18
<b>Department of Transportation</b>	2,855	0	0	517	1,309	0	1,029	32
<b>Environmental Protection Agency</b>	729	0	0	89	640	0	0	37
<b>Nat'l Aeronautics &amp; Space Admin.</b>	66,234	3,873	0	11,219	49,804	1,138	200	12
<b>National Science Foundation</b>	55,113	0	28,271	600	25,616	626	0	10
<b>State rank</b>	19	16	15	16	23	28	26	

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na = not applicable

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# ARKANSAS

## Science and Engineering Profile

	Arkansas	U.S.	Rank		Arkansas	U.S.	Rank
Doctoral scientists, 1993	1,795	430,332	43	Total R&D performance, 1993 (millions)	\$301	\$161,427	42
Doctoral engineers, 1993	199	81,293	46	Industry R&D, 1993 (millions)	\$185	\$117,622	39
S&E doctorates awarded, 1995	69	26,482	42	Academic R&D, 1994 (millions)	\$81	\$20,573	40
of which, in life sciences	48%	24%		of which, in life sciences	74%	55%	
in engineering	20%	23%		in engineering	13%	16%	
in physical sciences	20%	14%		in physical sciences	5%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	84	36,143	40	expenditures, 1993 (millions)	\$1,101	\$163,994	37
S&E graduate students, 1994				Number of SBIR awards, 1990-94	14	18,023	45
in doctorate-granting institutions	1,589	438,694	42	Patents issued to state residents, 1995	106	55,717	44
Population, 1995 (000s)	2,484	262,755	33	Gross state product, 1992 (billions)	\$44.0	\$5,994.1	32
Civilian labor force, 1995 (000s)	1,223	132,281	33	of which, agriculture	5%	2%	
Personal income per capita, 1995	\$17,429	\$22,788	50	manufacturing, mining, construction	28%	23%	
Federal spending				transportation, communication, utilities	11%	9%	
Total expenditures, 1995 (millions)	\$11,754	\$1,326,294	35	wholesale and retail trade	16%	16%	
R&D obligations, 1994 (millions)	\$89	\$65,654	41	finance, insurance, real estate	14%	18%	
				services	14%	20%	
				government	12%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in Arkansas by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	88,868	44,675	0	2,811	36,482	3,572	1,328	41
<b>Department of Agriculture</b>	15,434	4,985	0	15	10,408	0	26	33
<b>Department of Commerce</b>	0	0	0	0	0	0	0	na
<b>Department of Defense</b>	5,248	119	0	482	4,647	0	0	47
<b>Department of Energy</b>	304	0	0	0	304	0	0	50
<b>Dept. of Health &amp; Human Services</b>	55,186	35,548	0	1,141	16,236	1,798	463	30
<b>Department of the Interior</b>	5,194	3,721	0	0	193	1,280	0	31
<b>Department of Transportation</b>	1,252	302	0	91	20	0	839	40
<b>Environmental Protection Agency</b>	1,180	0	0	1,017	163	0	0	32
<b>Nat'l Aeronautics &amp; Space Admin.</b>	1,234	0	0	0	740	494	0	44
<b>National Science Foundation</b>	3,836	0	0	65	3,771	0	0	48
<b>State rank</b>	41	34	na	49	41	39	44	

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# CALIFORNIA

## Science and Engineering Profile

	California	U.S.	Rank		California	U.S.	Rank
Doctoral scientists, 1993	54,713	430,332	1	Total R&D performance, 1993 (millions)	\$33,721	\$161,427	1
Doctoral engineers, 1993	13,424	81,293	1	Industry R&D, 1993 (millions)	\$26,541	\$117,622	1
S&E doctorates awarded, 1995	3,653	26,482	1	Academic R&D, 1994 (millions)	\$2,464	\$20,573	1
of which, in engineering	22%	23%		of which, in life sciences	58%	55%	
in life sciences	19%	24%		in engineering	13%	16%	
in psychology	19%	13%		in physical sciences	12%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	6,248	36,143	1	expenditures, 1993 (millions)	\$19,709	\$163,994	1
S&E graduate students, 1994				Number of SBIR awards, 1990-94	4,175	18,023	1
in doctorate-granting institutions	44,778	438,694	1	Patents issued to state residents, 1995	9,263	55,717	1
Population, 1995 (000s)	31,589	262,755	1	Gross state product, 1992 (billions)	\$787.9	\$5,994.1	1
Civilian labor force, 1995 (000s)	15,415	132,281	1	of which, agriculture	2%	2%	
Personal income per capita, 1995	\$23,699	\$22,788	13	manufacturing, mining, construction	19%	23%	
Federal spending				transportation, communication, utilities	7%	9%	
Total expenditures, 1995 (millions)	\$152,534	\$1,326,294	1	wholesale and retail trade	16%	16%	
R&D obligations, 1994 (millions)	\$11,280	\$65,654	1	finance, insurance, real estate	21%	18%	
				services	23%	20%	
				government	12%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in California by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	11,279,888	1,400,726	1,791,580	6,046,504	1,659,223	354,290	27,565	1
<b>Department of Agriculture</b>	79,673	56,659	0	320	22,219	475	0	3
<b>Department of Commerce</b>	36,871	15,534	285	10,406	10,435	63	148	7
<b>Department of Defense</b>	6,597,594	1,216,765	222,094	4,845,100	272,854	40,781	0	1
<b>Department of Energy</b>	1,012,937	15,397	778,438	114,309	88,150	16,643	0	2
<b>Dept. of Health &amp; Human Services</b>	1,210,119	1,191	25,379	41,992	868,164	261,351	12,042	2
<b>Department of the Interior</b>	49,720	42,174	140	1,224	5,775	42	365	3
<b>Department of Transportation</b>	31,395	7,923	111	7,797	1,345	800	13,419	6
<b>Environmental Protection Agency</b>	15,035	0	0	9,050	4,717	0	1,268	7
<b>Nat'l Aeronautics &amp; Space Admin.</b>	1,962,011	45,083	764,789	983,870	151,572	16,622	75	1
<b>National Science Foundation</b>	284,533	0	344	32,436	233,992	17,513	248	1
<b>State rank</b>	1	3	1	1	1	2	2	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

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# COLORADO

## Science and Engineering Profile

	Colorado	U.S.	Rank		Colorado	U.S.	Rank
Doctoral scientists, 1993	8,558	430,332	16	Total R&D performance, 1993 (millions)	\$2,864	\$161,427	15
Doctoral engineers, 1993	1,683	81,293	15	Industry R&D, 1993 (millions)	\$2,111	\$117,622	15
S&E doctorates awarded, 1995	530	26,482	16	Academic R&D, 1994 (millions)	\$361	\$20,573	19
of which, in engineering	27%	23%		of which, in life sciences	47%	55%	
in life sciences	24%	24%		in engineering	15%	16%	
in social sciences	12%	15%		in environmental sciences	13%	7%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	757	36,143	14	expenditures, 1993 (millions)	\$1,978	\$163,994	27
S&E graduate students, 1994				Number of SBIR awards, 1990-94	667	18,023	6
in doctorate-granting institutions	9,155	438,694	16	Patents issued to state residents, 1995	1,097	55,717	15
Population, 1995 (000s)	3,747	262,755	25	Gross state product, 1992 (billions)	\$82.5	\$5,994.1	23
Civilian labor force, 1995 (000s)	2,089	132,281	22	of which, agriculture	2%	2%	
Personal income per capita, 1995	\$23,449	\$22,788	17	manufacturing, mining, construction	19%	23%	
Federal spending				transportation, communication, utilities	10%	9%	
Total expenditures, 1995 (millions)	\$19,196	\$1,326,294	25	wholesale and retail trade	17%	16%	
R&D obligations, 1994 (millions)	\$1,353	\$65,654	16	finance, insurance, real estate	17%	18%	
				services	21%	20%	
				government	14%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in Colorado by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	1,353,410	196,169	144,546	726,547	232,097	48,304	5,747	16
<b>Department of Agriculture</b>	30,478	23,049	0	216	7,213	0	0	17
<b>Department of Commerce</b>	82,540	75,983	0	48	6,509	0	0	2
<b>Department of Defense</b>	687,688	36,828	4,570	623,184	21,940	1,166	0	15
<b>Department of Energy</b>	128,956	3,316	81,058	35,334	8,465	783	0	11
<b>Dept. of Health &amp; Human Services</b>	163,720	10	0	1,930	120,932	36,117	4,731	17
<b>Department of the Interior</b>	53,753	50,895	0	487	2,039	332	0	2
<b>Department of Transportation</b>	8,410	206	0	2,592	689	3,907	1,016	17
<b>Environmental Protection Agency</b>	1,707	0	0	880	827	0	0	29
<b>Nat'l Aeronautics &amp; Space Admin.</b>	92,923	5,402	2,429	59,312	20,891	4,889	0	11
<b>National Science Foundation</b>	103,235	480	56,489	2,564	42,592	1,110	0	6
<b>State rank</b>	16	15	8	12	16	12	11	

Federal R&D obligations are as reported by funding agencies.

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SBIR = small business innovation research

na = not applicable

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# CONNECTICUT

## Science and Engineering Profile

	Connecticut	U.S.	Rank		Connecticut	U.S.	Rank
Doctoral scientists, 1993	7,131	430,332	21	Total R&D performance, 1993 (millions)	\$2,809	\$161,427	16
Doctoral engineers, 1993	1,155	81,293	22	Industry R&D, 1993 (millions)	\$2,373	\$117,622	13
S&E doctorates awarded, 1995	407	26,482	23	Academic R&D, 1994 (millions)	\$372	\$20,573	18
of which, in life sciences	29%	24%		of which, in life sciences	71%	55%	
in social sciences	22%	15%		in engineering	10%	16%	
in physical sciences	19%	14%		in physical sciences	7%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	1,049	36,143	10	expenditures, 1993 (millions)	\$2,419	\$163,994	25
S&E graduate students, 1994				Number of SBIR awards, 1990-94	601	18,023	7
in doctorate-granting institutions	4,971	438,694	28	Patents issued to state residents, 1995	1,544	55,717	12
Population, 1995 (000s)	3,275	262,755	28	Gross state product, 1992 (billions)	\$98.9	\$5,994.1	21
Civilian labor force, 1995 (000s)	1,709	132,281	27	of which, agriculture	1%	2%	
Personal income per capita, 1995	\$30,303	\$22,788	2	manufacturing, mining, construction	23%	23%	
Federal spending				transportation, communication, utilities	7%	9%	
Total expenditures, 1995 (millions)	\$17,498	\$1,326,294	28	wholesale and retail trade	16%	16%	
R&D obligations, 1994 (millions)	\$734	\$65,654	21	finance, insurance, real estate	24%	18%	
				services	21%	20%	
				government	9%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in Connecticut by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	733,512	43,055	0	429,026	238,359	17,587	5,485	22
<b>Department of Agriculture</b>	5,681	1,980	0	0	2,604	0	1,097	46
<b>Department of Commerce</b>	3,134	0	0	48	3,030	0	56	24
<b>Department of Defense</b>	398,476	29,969	0	349,562	18,945	0	0	18
<b>Department of Energy</b>	54,557	0	0	45,109	9,448	0	0	19
<b>Dept. of Health &amp; Human Services</b>	207,362	10	0	3,203	184,682	16,889	2,578	14
<b>Department of the Interior</b>	1,436	1,138	0	198	100	0	0	49
<b>Department of Transportation</b>	16,681	9,958	0	4,726	326	0	1,671	8
<b>Environmental Protection Agency</b>	1,716	0	0	1,148	568	0	0	28
<b>Nat'l Aeronautics &amp; Space Admin.</b>	25,256	0	0	23,762	1,402	92	0	20
<b>National Science Foundation</b>	19,213	0	0	1,270	17,254	606	83	24
<b>State rank</b>	22	35	na	15	15	22	12	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.



# DELAWARE

## Science and Engineering Profile

	Delaware	U.S.	Rank		Delaware	U.S.	Rank
Doctoral scientists, 1993	3,466	430,332	34	Total R&D performance, 1993 (millions)	\$1,247	\$161,427	26
Doctoral engineers, 1993	686	81,293	32	Industry R&D, 1993 (millions)	\$1,181	\$117,622	20
S&E doctorates awarded, 1995	100	26,482	39	Academic R&D, 1994 (millions)	\$51	\$20,573	48
of which, in engineering	31%	23%		of which, in engineering	29%	16%	
in psychology	15%	13%		in life sciences	24%	55%	
in physical sciences	14%	14%		in physical sciences	18%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	85	36,143	39	expenditures, 1993 (millions)	\$446	\$163,994	46
S&E graduate students, 1994				Number of SBIR awards, 1990-94	58	18,023	31
in doctorate-granting institutions	1,760	438,694	40	Patents issued to state residents, 1995	427	55,717	28
Population, 1995 (000s)	717	262,755	46	Gross state product, 1992 (billions)	\$23.7	\$5,994.1	44
Civilian labor force, 1995 (000s)	381	132,281	46	of which, agriculture	1%	2%	
Personal income per capita, 1995	\$24,124	\$22,788	12	manufacturing, mining, construction	24%	23%	
Federal spending				transportation, communication, utilities	5%	9%	
Total expenditures, 1995 (millions)	\$3,272	\$1,326,294	49	wholesale and retail trade	9%	16%	
R&D obligations, 1994 (millions)	\$50	\$65,654	47	finance, insurance, real estate	39%	18%	
				services	13%	20%	
				government	8%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in Delaware by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	50,441	9,326	0	9,532	27,036	4,019	528	47
<b>Department of Agriculture</b>	3,810	1,583	0	50	2,177	0	0	49
<b>Department of Commerce</b>	3,307	1,112	0	1,186	964	0	45	22
<b>Department of Defense</b>	16,446	2,759	0	4,492	9,195	0	0	40
<b>Department of Energy</b>	1,586	0	0	283	937	366	0	46
<b>Dept. of Health &amp; Human Services</b>	6,871	0	0	883	4,622	1,234	132	46
<b>Department of the Interior</b>	759	634	0	0	125	0	0	51
<b>Department of Transportation</b>	5,103	3,238	0	1,462	52	0	351	24
<b>Environmental Protection Agency</b>	1,242	0	0	325	917	0	0	31
<b>Nat'l Aeronautics &amp; Space Admin.</b>	2,954	0	0	786	646	1,522	0	38
<b>National Science Foundation</b>	8,363	0	0	65	7,401	897	0	40
<b>State rank</b>	47	47	na	45	44	38	51	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.



# DISTRICT OF COLUMBIA

## Science and Engineering Profile

	D.C.	U.S.	Rank		D.C.	U.S.	Rank
Doctoral scientists, 1993	12,763	430,332	11	Total R&D performance, 1993 (millions)	\$2,543	\$161,427	20
Doctoral engineers, 1993	1,068	81,293	24	Industry R&D, 1993 (millions)	\$540	\$117,622	27
S&E doctorates awarded, 1995	283	26,482	27	Academic R&D, 1994 (millions)	\$152	\$20,573	33
of which, in social sciences	37%	15%		of which, in life sciences	66%	55%	
in life sciences	19%	24%		in physical sciences	10%	10%	
in psychology	16%	13%		in social sciences	9%	4%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	172	36,143	32	expenditures, 1993 (millions)	\$2,427	\$163,994	24
S&E graduate students, 1994				Number of SBIR awards, 1990-94	51	18,023	33
in doctorate-granting institutions	9,728	438,694	13	Patents issued to state residents, 1995	57	55,717	48
Population, 1995 (000s)	554	262,755	50	Gross state product, 1992 (billions)	\$40.4	\$5,994.1	34
Civilian labor force, 1995 (000s)	283	132,281	50	of which, agriculture	0%	2%	
Personal income per capita, 1995	\$32,274	\$22,788	1	manufacturing, mining, construction	4%	23%	
Federal spending				transportation, communication, utilities	6%	9%	
Total expenditures, 1995 (millions)	\$21,776	\$1,326,294	21	wholesale and retail trade	5%	16%	
R&D obligations, 1994 (millions)	\$2,475	\$65,654	9	finance, insurance, real estate	12%	18%	
				services	34%	20%	
				government	39%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in District of Columbia by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	2,474,777	1,677,506	0	350,316	157,675	285,509	3,771	9
<b>Department of Agriculture</b>	163,363	156,192	0	6,208	792	133	38	1
<b>Department of Commerce</b>	8,896	8,389	0	15	413	79	0	15
<b>Department of Defense</b>	954,963	737,118	0	135,022	56,107	26,716	0	9
<b>Department of Energy</b>	325,620	280,999	0	36,856	2,920	4,845	0	7
<b>Dept. of Health &amp; Human Services</b>	216,072	81,703	0	10,638	71,680	50,951	1,100	13
<b>Department of the Interior</b>	25,740	23,956	0	1,257	124	403	0	6
<b>Department of Transportation</b>	133,055	68,460	0	49,087	3,248	11,823	437	1
<b>Environmental Protection Agency</b>	155,680	23,253	0	14,519	226	115,566	2,116	1
<b>Nat'l Aeronautics &amp; Space Admin.</b>	420,810	288,454	0	95,187	7,128	29,961	80	8
<b>National Science Foundation</b>	70,578	8,982	0	1,527	15,037	45,032	0	8
<b>State rank</b>	9	2	na	17	25	3	20	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

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na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# FLORIDA

## Science and Engineering Profile

	Florida	U.S.	Rank		Florida	U.S.	Rank
Doctoral scientists, 1993	11,809	430,332	13	Total R&D performance, 1993 (millions)	\$3,526	\$161,427	12
Doctoral engineers, 1993	2,339	81,293	12	Industry R&D, 1993 (millions)	\$2,425	\$117,622	12
S&E doctorates awarded, 1995	670	26,482	11	Academic R&D, 1994 (millions)	\$549	\$20,573	12
of which, in engineering	21%	23%		of which, in life sciences	51%	55%	
in psychology	20%	13%		in physical sciences	14%	10%	
in life sciences	20%	24%		in engineering	13%	16%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	558	36,143	20	expenditures, 1993 (millions)	\$4,690	\$163,994	10
S&E graduate students, 1994				Number of SBIR awards, 1990-94	376	18,023	12
in doctorate-granting institutions	18,220	438,694	8	Patents issued to state residents, 1995	2,002	55,717	10
Population, 1995 (000s)	14,166	262,755	4	Gross state product, 1992 (billions)	\$268.6	\$5,994.1	5
Civilian labor force, 1995 (000s)	6,830	132,281	4	of which, agriculture	2%	2%	
Personal income per capita, 1995	\$22,916	\$22,788	21	manufacturing, mining, construction	13%	23%	
Federal spending				transportation, communication, utilities	10%	9%	
Total expenditures, 1995 (millions)	\$74,992	\$1,326,294	4	wholesale and retail trade	18%	16%	
R&D obligations, 1994 (millions)	\$2,906	\$65,654	7	finance, insurance, real estate	20%	18%	
				services	23%	20%	
				government	13%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in Florida by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	2,906,333	585,886	0	2,047,291	263,964	4,421	4,771	7
<b>Department of Agriculture</b>	34,000	21,896	0	0	11,974	130	0	14
<b>Department of Commerce</b>	40,022	32,835	0	3,732	3,319	0	136	5
<b>Department of Defense</b>	2,122,465	294,791	0	1,781,797	45,742	135	0	5
<b>Department of Energy</b>	71,844	0	0	54,712	17,128	4	0	18
<b>Dept. of Health &amp; Human Services</b>	128,971	0	0	5,219	119,668	2,460	1,624	22
<b>Department of the Interior</b>	11,898	10,925	0	79	894	0	0	17
<b>Department of Transportation</b>	6,058	175	0	2,736	514	0	2,633	19
<b>Environmental Protection Agency</b>	12,277	4,007	0	7,280	864	0	126	10
<b>Nat'l Aeronautics &amp; Space Admin.</b>	429,133	221,257	0	191,131	16,068	425	252	7
<b>National Science Foundation</b>	49,665	0	0	605	47,793	1,267	0	12
<b>State rank</b>	7	7	na	4	12	37	13	

Federal R&D obligations are as reported by funding agencies.

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# GEORGIA

## Science and Engineering Profile

	Georgia	U.S.	Rank		Georgia	U.S.	Rank
Doctoral scientists, 1993	7,950	430,332	17	Total R&D performance, 1993 (millions)	\$1,577	\$161,427	25
Doctoral engineers, 1993	917	81,293	27	Industry R&D, 1993 (millions)	\$860	\$117,622	24
S&E doctorates awarded, 1995	496	26,482	17	Academic R&D, 1994 (millions)	\$606	\$20,573	11
of which, in life sciences	25%	24%		of which, in life sciences	50%	55%	
in engineering	24%	23%		in engineering	24%	16%	
in psychology	17%	13%		in physical sciences	8%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	490	36,143	23	expenditures, 1993 (millions)	\$3,742	\$163,994	13
S&E graduate students, 1994				Number of SBIR awards, 1990-94	133	18,023	25
in doctorate-granting institutions	9,173	438,694	15	Patents issued to state residents, 1995	847	55,717	20
Population, 1995 (000s)	7,201	262,755	10	Gross state product, 1992 (billions)	\$153.5	\$5,994.1	12
Civilian labor force, 1995 (000s)	3,618	132,281	11	of which, agriculture	2%	2%	
Personal income per capita, 1995	\$21,278	\$22,788	29	manufacturing, mining, construction	22%	23%	
Federal spending				transportation, communication, utilities	11%	9%	
Total expenditures, 1995 (millions)	\$33,121	\$1,326,294	13	wholesale and retail trade	18%	16%	
R&D obligations, 1994 (millions)	\$5,544	\$65,654	3	finance, insurance, real estate	16%	18%	
				services	17%	20%	
				government	13%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in Georgia by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	5,544,354	222,335	0	5,048,945	238,575	30,610	3,889	3
<b>Department of Agriculture</b>	51,741	39,287	0	0	12,309	0	145	5
<b>Department of Commerce</b>	2,153	458	0	718	977	0	0	31
<b>Department of Defense</b>	5,122,137	19,244	0	5,032,999	44,655	25,239	0	2
<b>Department of Energy</b>	17,227	0	0	423	14,547	2,257	0	28
<b>Dept. of Health &amp; Human Services</b>	261,755	141,010	0	1,270	116,460	2,232	783	9
<b>Department of the Interior</b>	6,441	5,821	0	95	525	0	0	25
<b>Department of Transportation</b>	14,913	125	0	2,396	10,121	242	2,029	9
<b>Environmental Protection Agency</b>	17,638	4,617	0	4,423	8,558	0	40	6
<b>Nat'l Aeronautics &amp; Space Admin.</b>	25,169	11,773	0	5,697	7,059	640	0	21
<b>National Science Foundation</b>	25,180	0	0	924	23,364	0	892	23
<b>State rank</b>	3	14	na	2	14	17	19	

Federal R&D obligations are as reported by funding agencies.

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na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# HAWAII

## Science and Engineering Profile

	Hawaii	U.S.	Rank		Hawaii	U.S.	Rank
Doctoral scientists, 1993	2,362	430,332	38	Total R&D performance, 1993 (millions)	\$380	\$161,427	39
Doctoral engineers, 1993	209	81,293	44	Industry R&D, 1993 (millions)	\$255	\$117,622	37
S&E doctorates awarded, 1995	125	26,482	38	Academic R&D, 1994 (millions)	\$70	\$20,573	42
of which, in social sciences	39%	15%		of which, in life sciences	42%	55%	
in life sciences	30%	24%		in physical sciences	29%	10%	
in environmental sciences	10%	3%		in environmental sciences	12%	7%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	59	36,143	42	expenditures, 1993 (millions)	\$693	\$163,994	41
S&E graduate students, 1994				Number of SBIR awards, 1990-94	69	18,023	29
in doctorate-granting institutions	2,326	438,694	37	Patents issued to state residents, 1995	66	55,717	46
Population, 1995 (000s)	1,187	262,755	40	Gross state product, 1992 (billions)	\$33.2	\$5,994.1	38
Civilian labor force, 1995 (000s)	580	132,281	42	of which, agriculture	1%	2%	
Personal income per capita, 1995	\$24,738	\$22,788	10	manufacturing, mining, construction	10%	23%	
Federal spending				transportation, communication, utilities	10%	9%	
Total expenditures, 1995 (millions)	\$7,529	\$1,326,294	39	wholesale and retail trade	16%	16%	
R&D obligations, 1994 (millions)	\$140	\$65,654	40	finance, insurance, real estate	19%	18%	
				services	23%	20%	
				government	20%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in Hawaii by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	140,305	61,156	0	11,210	55,606	11,375	958	40
<b>Department of Agriculture</b>	20,612	9,796	0	0	5,357	5,459	0	23
<b>Department of Commerce</b>	13,138	8,413	0	194	4,452	0	79	14
<b>Department of Defense</b>	47,042	32,517	0	9,698	4,827	0	0	31
<b>Department of Energy</b>	2,706	0	0	0	2,656	50	0	44
<b>Dept. of Health &amp; Human Services</b>	24,277	0	0	675	17,526	5,800	276	40
<b>Department of the Interior</b>	10,920	10,380	0	0	540	0	0	19
<b>Department of Transportation</b>	752	0	0	0	149	0	603	46
<b>Environmental Protection Agency</b>	0	0	0	0	0	0	0	na
<b>Nat'l Aeronautics &amp; Space Admin.</b>	6,987	50	0	160	6,777	0	0	32
<b>National Science Foundation</b>	13,871	0	0	483	13,322	66	0	29
<b>State rank</b>	40	28	na	42	35	26	47	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# IDAHO

## Science and Engineering Profile

	Idaho	U.S.	Rank		Idaho	U.S.	Rank
Doctoral scientists, 1993	1,800	430,332	42	Total R&D performance, 1993 (millions)	\$477	\$161,427	34
Doctoral engineers, 1993	403	81,293	36	Industry R&D, 1993 (millions)	\$391	\$117,622	32
S&E doctorates awarded, 1995	57	26,482	43	Academic R&D, 1994 (millions)	\$55	\$20,573	45
of which, in life sciences	56%	24%		of which, in life sciences	69%	55%	
in math & computer sciences	14%	8%		in engineering	14%	16%	
in engineering	12%	23%		in physical sciences	7%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	49	36,143	44	expenditures, 1993 (millions)	\$497	\$163,994	44
S&E graduate students, 1994				Number of SBIR awards, 1990-94	21	18,023	43
in doctorate-granting institutions	1,746	438,694	41	Patents issued to state residents, 1995	305	55,717	32
Population, 1995 (000s)	1,163	262,755	41	Gross state product, 1992 (billions)	\$20.9	\$5,994.1	46
Civilian labor force, 1995 (000s)	598	132,281	41	of which, agriculture	8%	2%	
Personal income per capita, 1995	\$19,264	\$22,788	39	manufacturing, mining, construction	23%	23%	
Federal spending				transportation, communication, utilities	8%	9%	
Total expenditures, 1995 (millions)	\$5,320	\$1,326,294	43	wholesale and retail trade	16%	16%	
R&D obligations, 1994 (millions)	\$228	\$65,654	32	finance, insurance, real estate	17%	18%	
				services	15%	20%	
				government	13%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in Idaho by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	227,773	29,373	73,879	105,070	17,980	323	1,148	32
<b>Department of Agriculture</b>	18,141	13,054	0	0	4,989	91	7	27
<b>Department of Commerce</b>	507	471	0	0	36	0	0	38
<b>Department of Defense</b>	12,186	4,150	3,899	3,185	952	0	0	44
<b>Department of Energy</b>	171,393	1,315	68,533	101,110	260	0	175	9
<b>Dept. of Health &amp; Human Services</b>	1,780	0	0	369	795	230	386	50
<b>Department of the Interior</b>	12,232	9,589	1,447	66	1,128	2	0	16
<b>Department of Transportation</b>	5,774	550	0	0	4,644	0	580	21
<b>Environmental Protection Agency</b>	585	0	0	0	585	0	0	38
<b>Nat'l Aeronautics &amp; Space Admin.</b>	393	244	0	0	149	0	0	49
<b>National Science Foundation</b>	4,782	0	0	340	4,442	0	0	47
<b>State rank</b>	32	41	12	27	48	49	45	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# ILLINOIS

## Science and Engineering Profile

	Illinois	U.S.	Rank		Illinois	U.S.	Rank
Doctoral scientists, 1993	17,727	430,332	7	Total R&D performance, 1993 (millions)	\$6,768	\$161,427	9
Doctoral engineers, 1993	2,957	81,293	8	Industry R&D, 1993 (millions)	\$5,242	\$117,622	7
S&E doctorates awarded, 1995	1,412	26,482	5	Academic R&D, 1994 (millions)	\$803	\$20,573	7
of which, in engineering	21%	23%		of which, in life sciences	50%	55%	
in life sciences	21%	24%		in physical sciences	12%	10%	
in social sciences	18%	15%		in engineering	11%	16%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	1,176	36,143	8	expenditures, 1993 (millions)	\$8,572	\$163,994	5
S&E graduate students, 1994				Number of SBIR awards, 1990-94	280	18,023	16
in doctorate-granting institutions	21,737	438,694	6	Patents issued to state residents, 1995	2,874	55,717	4
Population, 1995 (000s)	11,830	262,755	6	Gross state product, 1992 (billions)	\$294.4	\$5,994.1	4
Civilian labor force, 1995 (000s)	6,083	132,281	5	of which, agriculture	2%	2%	
Personal income per capita, 1995	\$24,763	\$22,788	9	manufacturing, mining, construction	23%	23%	
Federal spending				transportation, communication, utilities	10%	9%	
Total expenditures, 1995 (millions)	\$50,934	\$1,326,294	7	wholesale and retail trade	17%	16%	
R&D obligations, 1994 (millions)	\$1,080	\$65,654	17	finance, insurance, real estate	19%	18%	
				services	20%	20%	
				government	10%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in Illinois by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	1,079,973	85,416	436,956	85,475	423,291	42,810	6,025	17
<b>Department of Agriculture</b>	44,950	33,219	0	80	11,471	145	35	7
<b>Department of Commerce</b>	4,203	365	0	2,581	761	0	496	21
<b>Department of Defense</b>	159,694	46,240	4,359	59,051	49,533	511	0	25
<b>Department of Energy</b>	467,668	1,862	430,396	11,768	21,027	1,615	1,000	4
<b>Dept. of Health &amp; Human Services</b>	255,716	399	547	6,080	211,207	36,558	925	12
<b>Department of the Interior</b>	2,933	2,067	75	71	536	0	184	40
<b>Department of Transportation</b>	9,295	19	1,478	2,911	1,250	635	3,002	16
<b>Environmental Protection Agency</b>	1,796	0	0	713	700	0	383	24
<b>Nat'l Aeronautics &amp; Space Admin.</b>	13,292	1,245	100	1,899	9,866	182	0	27
<b>National Science Foundation</b>	120,426	0	1	321	116,940	3,164	0	4
<b>State rank</b>	17	26	3	29	8	15	8	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# INDIANA

## Science and Engineering Profile

	Indiana	U.S.	Rank		Indiana	U.S.	Rank
Doctoral scientists, 1993	6,901	430,332	23	Total R&D performance, 1993 (millions)	\$2,560	\$161,427	19
Doctoral engineers, 1993	1,252	81,293	19	Industry R&D, 1993 (millions)	\$2,177	\$117,622	14
S&E doctorates awarded, 1995	690	26,482	10	Academic R&D, 1994 (millions)	\$335	\$20,573	21
of which, in engineering	26%	23%		of which, in life sciences	51%	55%	
in physical sciences	21%	14%		in physical sciences	18%	10%	
in life sciences	18%	24%		in engineering	16%	16%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	599	36,143	19	expenditures, 1993 (millions)	\$3,612	\$163,994	14
S&E graduate students, 1994				Number of SBIR awards, 1990-94	76	18,023	28
in doctorate-granting institutions	10,348	438,694	11	Patents issued to state residents, 1995	1,111	55,717	14
Population, 1995 (000s)	5,803	262,755	14	Gross state product, 1992 (billions)	\$121.6	\$5,994.1	15
Civilian labor force, 1995 (000s)	3,134	132,281	14	of which, agriculture	2%	2%	
Personal income per capita, 1995	\$21,273	\$22,788	30	manufacturing, mining, construction	34%	23%	
Federal spending				transportation, communication, utilities	9%	9%	
Total expenditures, 1995 (millions)	\$22,961	\$1,326,294	18	wholesale and retail trade	16%	16%	
R&D obligations, 1994 (millions)	\$404	\$65,654	26	finance, insurance, real estate	15%	18%	
				services	15%	20%	
				government	10%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in Indiana by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	403,611	96,071	0	122,674	176,141	5,816	2,909	26
<b>Department of Agriculture</b>	15,809	4,253	0	0	11,549	7	0	32
<b>Department of Commerce</b>	189	0	0	0	189	0	0	42
<b>Department of Defense</b>	222,148	87,726	0	114,946	14,068	5,408	0	22
<b>Department of Energy</b>	17,105	0	0	1,368	15,682	55	0	29
<b>Dept. of Health &amp; Human Services</b>	88,241	100	0	2,072	84,332	267	1,470	25
<b>Department of the Interior</b>	2,712	2,524	0	24	164	0	0	43
<b>Department of Transportation</b>	2,219	0	0	221	580	0	1,418	35
<b>Environmental Protection Agency</b>	1,088	0	0	55	1,012	0	21	33
<b>Nat'l Aeronautics &amp; Space Admin.</b>	10,006	1,468	0	3,548	4,911	79	0	30
<b>National Science Foundation</b>	44,094	0	0	440	43,654	0	0	15
<b>State rank</b>	26	22	na	23	21	31	27	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.



# IOWA

## Science and Engineering Profile

	Iowa	U.S.	Rank		Iowa	U.S.	Rank
Doctoral scientists, 1993	3,849	430,332	31	Total R&D performance, 1993 (millions)	\$902	\$161,427	28
Doctoral engineers, 1993	433	81,293	35	Industry R&D, 1993 (millions)	\$533	\$117,622	28
S&E doctorates awarded, 1995	444	26,482	21	Academic R&D, 1994 (millions)	\$315	\$20,573	23
of which, in life sciences	29%	24%		of which, in life sciences	62%	55%	
in engineering	27%	23%		in engineering	20%	16%	
in physical sciences	13%	14%		in physical sciences	7%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	543	36,143	21	expenditures, 1993 (millions)	\$2,533	\$163,994	22
S&E graduate students, 1994				Number of SBIR awards, 1990-94	31	18,023	40
in doctorate-granting institutions	5,590	438,694	27	Patents issued to state residents, 1995	421	55,717	29
Population, 1995 (000s)	2,842	262,755	30	Gross state product, 1992 (billions)	\$59.5	\$5,994.1	30
Civilian labor force, 1995 (000s)	1,559	132,281	29	of which, agriculture	7%	2%	
Personal income per capita, 1995	\$21,012	\$22,788	31	manufacturing, mining, construction	26%	23%	
Federal spending				transportation, communication, utilities	8%	9%	
Total expenditures, 1995 (millions)	\$12,979	\$1,326,294	32	wholesale and retail trade	16%	16%	
R&D obligations, 1994 (millions)	\$224	\$65,654	33	finance, insurance, real estate	16%	18%	
				services	15%	20%	
				government	12%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in Iowa by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	223,823	37,592	27,791	18,758	134,507	2,527	2,648	33
<b>Department of Agriculture</b>	40,127	25,437	0	80	14,610	0	0	9
<b>Department of Commerce</b>	2,496	0	0	580	1,916	0	0	28
<b>Department of Defense</b>	33,186	9,784	110	15,541	7,751	0	0	36
<b>Department of Energy</b>	31,992	0	27,088	1,695	3,209	0	0	22
<b>Dept. of Health &amp; Human Services</b>	85,090	0	593	0	80,555	2,527	1,415	26
<b>Department of the Interior</b>	2,528	2,371	0	0	157	0	0	44
<b>Department of Transportation</b>	7,206	0	0	0	6,138	0	1,068	18
<b>Environmental Protection Agency</b>	1,259	0	0	125	969	0	165	30
<b>Nat'l Aeronautics &amp; Space Admin.</b>	5,903	0	0	379	5,524	0	0	33
<b>National Science Foundation</b>	14,036	0	0	358	13,678	0	0	28
<b>State rank</b>	33	38	16	40	26	41	28	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# KANSAS

## Science and Engineering Profile

	Kansas	U.S.	Rank		Kansas	U.S.	Rank
Doctoral scientists, 1993	3,124	430,332	35	Total R&D performance, 1993 (millions)	\$463	\$161,427	36
Doctoral engineers, 1993	515	81,293	34	Industry R&D, 1993 (millions)	\$292	\$117,622	34
S&E doctorates awarded, 1995	260	26,482	29	Academic R&D, 1994 (millions)	\$169	\$20,573	32
of which, in life sciences	37%	24%		of which, in life sciences	62%	55%	
in engineering	20%	23%		in engineering	13%	16%	
in physical sciences	15%	14%		in physical sciences	9%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	310	36,143	28	expenditures, 1993 (millions)	\$1,487	\$163,994	32
S&E graduate students, 1994				Number of SBIR awards, 1990-94	32	18,023	39
in doctorate-granting institutions	6,129	438,694	23	Patents issued to state residents, 1995	246	55,717	36
Population, 1995 (000s)	2,565	262,755	32	Gross state product, 1992 (billions)	\$56.2	\$5,994.1	31
Civilian labor force, 1995 (000s)	1,330	132,281	31	of which, agriculture	5%	2%	
Personal income per capita, 1995	\$21,825	\$22,788	24	manufacturing, mining, construction	23%	23%	
Federal spending				transportation, communication, utilities	11%	9%	
Total expenditures, 1995 (millions)	\$12,440	\$1,326,294	33	wholesale and retail trade	17%	16%	
R&D obligations, 1994 (millions)	\$85	\$65,654	43	finance, insurance, real estate	15%	18%	
				services	16%	20%	
				government	13%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in Kansas by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	84,823	15,157	0	11,173	55,119	1,095	2,279	44
<b>Department of Agriculture</b>	13,341	6,997	0	80	6,264	0	0	36
<b>Department of Commerce</b>	38	0	0	0	38	0	0	45
<b>Department of Defense</b>	14,972	4,944	0	6,534	3,494	0	0	42
<b>Department of Energy</b>	4,205	0	0	0	4,205	0	0	41
<b>Dept. of Health &amp; Human Services</b>	31,500	0	0	863	28,239	1,095	1,303	36
<b>Department of the Interior</b>	3,353	3,214	0	39	100	0	0	38
<b>Department of Transportation</b>	1,942	0	0	94	872	0	976	37
<b>Environmental Protection Agency</b>	4,351	0	0	3,283	1,068	0	0	19
<b>Nat'l Aeronautics &amp; Space Admin.</b>	2,595	2	0	180	2,413	0	0	39
<b>National Science Foundation</b>	8,526	0	0	100	8,426	0	0	39
<b>State rank</b>	44	45	na	43	36	47	33	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# KENTUCKY

## Science and Engineering Profile

	Kentucky	U.S.	Rank		Kentucky	U.S.	Rank
Doctoral scientists, 1993	3,780	430,332	32	Total R&D performance, 1993 (millions)	\$429	\$161,427	38
Doctoral engineers, 1993	360	81,293	39	Industry R&D, 1993 (millions)	\$289	\$117,622	35
S&E doctorates awarded, 1995	198	26,482	33	Academic R&D, 1994 (millions)	\$126	\$20,573	35
of which, in life sciences	37%	24%		of which, in life sciences	74%	55%	
in social sciences	19%	15%		in engineering	15%	16%	
in psychology	16%	13%		in physical sciences	3%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	230	36,143	30	expenditures, 1993 (millions)	\$1,831	\$163,994	29
S&E graduate students, 1994				Number of SBIR awards, 1990-94	28	18,023	42
in doctorate-granting institutions	3,487	438,694	34	Patents issued to state residents, 1995	272	55,717	34
Population, 1995 (000s)	3,860	262,755	24	Gross state product, 1992 (billions)	\$75.6	\$5,994.1	25
Civilian labor force, 1995 (000s)	1,861	132,281	25	of which, agriculture	3%	2%	
Personal income per capita, 1995	\$18,612	\$22,788	44	manufacturing, mining, construction	32%	23%	
Federal spending				transportation, communication, utilities	9%	9%	
Total expenditures, 1995 (millions)	\$19,991	\$1,326,294	23	wholesale and retail trade	15%	16%	
R&D obligations, 1994 (millions)	\$89	\$65,654	41	finance, insurance, real estate	14%	18%	
				services	14%	20%	
				government	13%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in Kentucky by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	88,635	8,049	0	14,159	63,939	262	2,226	42
<b>Department of Agriculture</b>	11,263	1,495	0	0	9,768	0	0	38
<b>Department of Commerce</b>	68	0	0	1	67	0	0	44
<b>Department of Defense</b>	7,561	4,746	0	1,400	1,415	0	0	45
<b>Department of Energy</b>	18,490	0	0	11,935	6,480	0	75	27
<b>Dept. of Health &amp; Human Services</b>	39,287	0	0	821	37,557	262	647	31
<b>Department of the Interior</b>	2,354	1,808	0	0	296	0	250	45
<b>Department of Transportation</b>	1,240	0	0	0	66	0	1,174	41
<b>Environmental Protection Agency</b>	526	0	0	0	446	0	80	40
<b>Nat'l Aeronautics &amp; Space Admin.</b>	1,479	0	0	0	1,479	0	0	43
<b>National Science Foundation</b>	6,367	0	0	2	6,365	0	0	42
<b>State rank</b>	42	49	na	41	33	50	34	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# LOUISIANA

## Science and Engineering Profile

	Louisiana	U.S.	Rank		Louisiana	U.S.	Rank
Doctoral scientists, 1993	4,914	430,332	26	Total R&D performance, 1993 (millions)	\$470	\$161,427	35
Doctoral engineers, 1993	873	81,293	28	Industry R&D, 1993 (millions)	\$170	\$117,622	41
S&E doctorates awarded, 1995	300	26,482	26	Academic R&D, 1994 (millions)	\$269	\$20,573	26
of which, in life sciences	34%	24%		of which, in life sciences	63%	55%	
in engineering	17%	23%		in engineering	14%	16%	
in math & computer sciences	13%	8%		in environmental sciences	8%	7%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	336	36,143	26	expenditures, 1993 (millions)	\$2,473	\$163,994	23
S&E graduate students, 1994				Number of SBIR awards, 1990-94	54	18,023	32
in doctorate-granting institutions	5,992	438,694	25	Patents issued to state residents, 1995	370	55,717	31
Population, 1995 (000s)	4,342	262,755	21	Gross state product, 1992 (billions)	\$96.2	\$5,994.1	22
Civilian labor force, 1995 (000s)	1,956	132,281	24	of which, agriculture	1%	2%	
Personal income per capita, 1995	\$18,827	\$22,788	40	manufacturing, mining, construction	35%	23%	
Federal spending				transportation, communication, utilities	10%	9%	
Total expenditures, 1995 (millions)	\$22,437	\$1,326,294	20	wholesale and retail trade	13%	16%	
R&D obligations, 1994 (millions)	\$205	\$65,654	36	finance, insurance, real estate	14%	18%	
				services	15%	20%	
				government	11%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in Louisiana by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	205,055	49,604	0	40,037	111,073	1,976	2,365	36
<b>Department of Agriculture</b>	33,856	24,997	0	0	8,859	0	0	15
<b>Department of Commerce</b>	2,365	793	0	0	1,563	0	9	29
<b>Department of Defense</b>	62,754	5,661	0	32,887	24,206	0	0	30
<b>Department of Energy</b>	6,487	260	0	2,726	3,501	0	0	37
<b>Dept. of Health &amp; Human Services</b>	60,718	2,271	0	337	55,649	1,976	485	29
<b>Department of the Interior</b>	17,792	15,582	0	141	2,069	0	0	11
<b>Department of Transportation</b>	1,470	0	0	20	195	0	1,255	39
<b>Environmental Protection Agency</b>	2,409	0	0	0	2,409	0	0	22
<b>Nat'l Aeronautics &amp; Space Admin.</b>	5,856	40	0	3,297	2,314	0	205	34
<b>National Science Foundation</b>	11,348	0	0	629	10,308	0	411	31
<b>State rank</b>	36	33	na	35	29	42	31	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# MAINE

## Science and Engineering Profile

	Maine	U.S.	Rank		Maine	U.S.	Rank
Doctoral scientists, 1993	1,867	430,332	40	Total R&D performance, 1993 (millions)	\$114	\$161,427	47
Doctoral engineers, 1993	245	81,293	42	Industry R&D, 1993 (millions)	\$59	\$117,622	45
S&E doctorates awarded, 1995	28	26,482	49	Academic R&D, 1994 (millions)	\$29	\$20,573	50
of which, in life sciences	43%	24%		of which, in life sciences	54%	55%	
in engineering	18%	23%		in environmental sciences	24%	7%	
in physical sciences	18%	14%		in engineering	11%	16%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	18	36,143	50	expenditures, 1993 (millions)	\$599	\$163,994	42
S&E graduate students, 1994				Number of SBIR awards, 1990-94	49	18,023	34
in doctorate-granting institutions	820	438,694	49	Patents issued to state residents, 1995	113	55,717	43
Population, 1995 (000s)	1,241	262,755	39	Gross state product, 1992 (billions)	\$24.1	\$5,994.1	43
Civilian labor force, 1995 (000s)	642	132,281	39	of which, agriculture	2%	2%	
Personal income per capita, 1995	\$20,527	\$22,788	35	manufacturing, mining, construction	22%	23%	
Federal spending				transportation, communication, utilities	8%	9%	
Total expenditures, 1995 (millions)	\$6,540	\$1,326,294	41	wholesale and retail trade	17%	16%	
R&D obligations, 1994 (millions)	\$81	\$65,654	45	finance, insurance, real estate	18%	18%	
				services	19%	20%	
				government	14%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in Maine by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	80,852	3,882	0	36,902	15,747	21,768	2,553	45
<b>Department of Agriculture</b>	5,863	1,227	0	0	4,636	0	0	44
<b>Department of Commerce</b>	3,297	606	0	0	2,560	0	131	23
<b>Department of Defense</b>	31,283	832	0	28,413	674	1,364	0	37
<b>Department of Energy</b>	7,701	0	0	6,529	1,172	0	0	35
<b>Dept. of Health &amp; Human Services</b>	22,315	0	0	573	1,508	18,521	1,713	41
<b>Department of the Interior</b>	1,558	1,217	0	7	334	0	0	48
<b>Department of Transportation</b>	656	0	0	234	0	0	422	48
<b>Environmental Protection Agency</b>	1,757	0	0	900	775	0	82	25
<b>Nat'l Aeronautics &amp; Space Admin.</b>	937	0	0	90	179	463	205	46
<b>National Science Foundation</b>	5,485	0	0	156	3,909	1,420	0	44
<b>State rank</b>	45	50	na	37	49	20	30	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# MARYLAND

## Science and Engineering Profile

	Maryland	U.S.	Rank		Maryland	U.S.	Rank
Doctoral scientists, 1993	17,765	430,332	6	Total R&D performance, 1993 (millions)	\$7,442	\$161,427	7
Doctoral engineers, 1993	2,832	81,293	9	Industry R&D, 1993 (millions)	\$2,076	\$117,622	16
S&E doctorates awarded, 1995	604	26,482	15	Academic R&D, 1994 (millions)	\$1,130	\$20,573	4
of which, in life sciences	28%	24%		of which, in life sciences	39%	55%	
in engineering	24%	23%		in engineering	23%	16%	
in social sciences	14%	15%		in physical sciences	16%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	1,274	36,143	7	expenditures, 1993 (millions)	\$3,453	\$163,994	15
S&E graduate students, 1994				Number of SBIR awards, 1990-94	953	18,023	4
in doctorate-granting institutions	8,940	438,694	18	Patents issued to state residents, 1995	984	55,717	19
Population, 1995 (000s)	5,042	262,755	19	Gross state product, 1992 (billions)	\$116.2	\$5,994.1	16
Civilian labor force, 1995 (000s)	2,723	132,281	18	of which, agriculture	1%	2%	
Personal income per capita, 1995	\$25,927	\$22,788	6	manufacturing, mining, construction	15%	23%	
Federal spending				transportation, communication, utilities	8%	9%	
Total expenditures, 1995 (millions)	\$36,847	\$1,326,294	11	wholesale and retail trade	16%	16%	
R&D obligations, 1994 (millions)	\$6,653	\$65,654	2	finance, insurance, real estate	19%	18%	
				services	23%	20%	
				government	17%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in Maryland by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	6,652,978	4,163,166	130,465	1,600,112	605,589	149,899	3,747	2
<b>Department of Agriculture</b>	114,075	101,482	0	3,010	8,975	437	171	2
<b>Department of Commerce</b>	277,022	267,217	0	4,567	5,032	50	156	1
<b>Department of Defense</b>	2,549,193	1,476,873	3,284	866,974	183,403	18,659	0	4
<b>Department of Energy</b>	79,783	51,890	0	12,891	14,242	760	0	15
<b>Dept. of Health &amp; Human Services</b>	2,530,756	1,872,275	127,181	169,349	321,315	40,250	386	1
<b>Department of the Interior</b>	18,359	17,823	0	66	318	2	150	9
<b>Department of Transportation</b>	38,809	2,604	0	33,545	1,370	0	1,290	5
<b>Environmental Protection Agency</b>	8,617	0	0	6,276	1,669	0	672	14
<b>Nat'l Aeronautics &amp; Space Admin.</b>	985,029	370,051	0	497,883	30,947	85,676	472	3
<b>National Science Foundation</b>	51,335	2,951	0	5,551	38,318	4,065	450	11
<b>State rank</b>	2	1	10	7	6	7	21	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# MASSACHUSETTS

## Science and Engineering Profile

	Mass.	U.S.	Rank		Mass.	U.S.	Rank
Doctoral scientists, 1993	19,645	430,332	5	Total R&D performance, 1993 (millions)	\$9,468	\$161,427	4
Doctoral engineers, 1993	3,166	81,293	7	Industry R&D, 1993 (millions)	\$6,952	\$117,622	5
S&E doctorates awarded, 1995	1,445	26,482	4	Academic R&D, 1994 (millions)	\$1,122	\$20,573	5
of which, in engineering	25%	23%		of which, in life sciences	39%	55%	
in life sciences	21%	24%		in engineering	19%	16%	
in social sciences	19%	15%		in physical sciences	16%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	4,222	36,143	2	expenditures, 1993 (millions)	\$7,456	\$163,994	6
S&E graduate students, 1994				Number of SBIR awards, 1990-94	2,916	18,023	2
in doctorate-granting institutions	22,882	438,694	4	Patents issued to state residents, 1995	2,161	55,717	9
Population, 1995 (000s)	6,074	262,755	13	Gross state product, 1992 (billions)	\$162.0	\$5,994.1	10
Civilian labor force, 1995 (000s)	3,168	132,281	13	of which, agriculture	1%	2%	
Personal income per capita, 1995	\$26,994	\$22,788	4	manufacturing, mining, construction	21%	23%	
Federal spending				transportation, communication, utilities	7%	9%	
Total expenditures, 1995 (millions)	\$35,858	\$1,326,294	12	wholesale and retail trade	16%	16%	
R&D obligations, 1994 (millions)	\$3,234	\$65,654	6	finance, insurance, real estate	21%	18%	
				services	25%	20%	
				government	9%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in Massachusetts by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	3,234,051	341,397	277,699	1,226,730	825,912	548,924	13,389	6
<b>Department of Agriculture</b>	21,664	14,798	0	167	6,351	348	0	22
<b>Department of Commerce</b>	38,499	27,636	157	6,903	3,236	221	346	6
<b>Department of Defense</b>	1,819,521	236,242	272,012	1,082,232	185,216	43,819	0	7
<b>Department of Energy</b>	88,862	129	0	6,176	79,045	3,512	0	14
<b>Dept. of Health &amp; Human Services</b>	901,577	29,448	0	71,902	347,446	446,827	5,954	4
<b>Department of the Interior</b>	6,471	5,349	0	315	807	0	0	24
<b>Department of Transportation</b>	41,788	25,159	0	8,636	2,453	0	5,540	4
<b>Environmental Protection Agency</b>	19,823	0	0	15,513	2,761	0	1,549	5
<b>Nat'l Aeronautics &amp; Space Admin.</b>	126,941	2,090	5,388	25,808	49,418	44,237	0	10
<b>National Science Foundation</b>	168,905	546	142	9,078	149,179	9,960	0	3
<b>State rank</b>	6	11	5	8	3	1	3	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.



# MICHIGAN

## Science and Engineering Profile

	Michigan	U.S.	Rank		Michigan	U.S.	Rank
Doctoral scientists, 1993	11,796	430,332	14	Total R&D performance, 1993 (millions)	\$10,778	\$161,427	3
Doctoral engineers, 1993	2,684	81,293	10	Industry R&D, 1993 (millions)	\$9,924	\$117,622	2
S&E doctorates awarded, 1995	998	26,482	8	Academic R&D, 1994 (millions)	\$730	\$20,573	8
of which, in engineering	27%	23%		of which, in life sciences	54%	55%	
in life sciences	22%	24%		in engineering	18%	16%	
in social sciences	15%	15%		in social sciences	9%	4%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	1,148	36,143	9	expenditures, 1993 (millions)	\$5,715	\$163,994	8
S&E graduate students, 1994				Number of SBIR awards, 1990-94	302	18,023	15
in doctorate-granting institutions	17,350	438,694	9	Patents issued to state residents, 1995	2,779	55,717	5
Population, 1995 (000s)	9,549	262,755	8	Gross state product, 1992 (billions)	\$204.4	\$5,994.1	9
Civilian labor force, 1995 (000s)	4,745	132,281	8	of which, agriculture	1%	2%	
Personal income per capita, 1995	\$23,551	\$22,788	16	manufacturing, mining, construction	31%	23%	
Federal spending				transportation, communication, utilities	7%	9%	
Total expenditures, 1995 (millions)	\$39,372	\$1,326,294	9	wholesale and retail trade	16%	16%	
R&D obligations, 1994 (millions)	\$770	\$65,654	20	finance, insurance, real estate	16%	18%	
				services	18%	20%	
				government	11%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in Michigan by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	770,231	99,972	0	227,762	392,223	45,675	4,599	20
<b>Department of Agriculture</b>	22,977	7,872	0	80	15,025	0	0	21
<b>Department of Commerce</b>	19,905	6,777	0	11,762	803	422	141	11
<b>Department of Defense</b>	339,519	78,565	0	194,546	39,779	26,629	0	20
<b>Department of Energy</b>	14,234	0	0	814	13,323	97	0	31
<b>Dept. of Health &amp; Human Services</b>	257,662	0	0	6,798	237,888	11,059	1,917	11
<b>Department of the Interior</b>	7,262	6,748	0	90	424	0	0	23
<b>Department of Transportation</b>	4,803	10	0	604	2,248	0	1,941	25
<b>Environmental Protection Agency</b>	12,541	0	0	7,752	4,189	0	600	9
<b>Nat'l Aeronautics &amp; Space Admin.</b>	23,419	0	0	4,926	11,066	7,427	0	22
<b>National Science Foundation</b>	67,909	0	0	390	67,478	41	0	9
<b>State rank</b>	20	21	na	20	9	14	15	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# MINNESOTA

## Science and Engineering Profile

	Minnesota	U.S.	Rank		Minnesota	U.S.	Rank
Doctoral scientists, 1993	7,705	430,332	18	Total R&D performance, 1993 (millions)	\$2,922	\$161,427	14
Doctoral engineers, 1993	1,163	81,293	21	Industry R&D, 1993 (millions)	\$2,458	\$117,622	11
S&E doctorates awarded, 1995	475	26,482	18	Academic R&D, 1994 (millions)	\$318	\$20,573	22
of which, in life sciences	30%	24%		of which, in life sciences	69%	55%	
in engineering	24%	23%		in engineering	10%	16%	
in psychology	16%	13%		in math & computer sciences	7%	4%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	705	36,143	15	expenditures, 1993 (millions)	\$3,099	\$163,994	18
S&E graduate students, 1994				Number of SBIR awards, 1990-94	269	18,023	18
in doctorate-granting institutions	5,969	438,694	26	Patents issued to state residents, 1995	1,657	55,717	11
Population, 1995 (000s)	4,610	262,755	20	Gross state product, 1992 (billions)	\$110.3	\$5,994.1	18
Civilian labor force, 1995 (000s)	2,589	132,281	20	of which, agriculture	3%	2%	
Personal income per capita, 1995	\$23,118	\$22,788	20	manufacturing, mining, construction	25%	23%	
Federal spending				transportation, communication, utilities	8%	9%	
Total expenditures, 1995 (millions)	\$18,825	\$1,326,294	26	wholesale and retail trade	17%	16%	
R&D obligations, 1994 (millions)	\$474	\$65,654	24	finance, insurance, real estate	18%	18%	
				services	18%	20%	
				government	11%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in Minnesota by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	474,372	40,620	0	183,537	171,224	73,128	5,863	24
<b>Department of Agriculture</b>	24,263	14,963	0	160	9,074	0	66	20
<b>Department of Commerce</b>	2,727	0	0	2,274	453	0	0	26
<b>Department of Defense</b>	184,886	4,093	0	166,869	11,616	2,308	0	23
<b>Department of Energy</b>	6,867	0	0	0	6,867	0	0	36
<b>Dept. of Health &amp; Human Services</b>	187,722	0	0	3,862	109,315	69,986	4,559	16
<b>Department of the Interior</b>	17,664	15,973	0	1,219	472	0	0	12
<b>Department of Transportation</b>	5,284	0	0	3,017	1,154	0	1,113	23
<b>Environmental Protection Agency</b>	10,376	5,591	0	3,001	1,659	0	125	12
<b>Nat'l Aeronautics &amp; Space Admin.</b>	4,152	0	0	2,009	2,079	64	0	36
<b>National Science Foundation</b>	30,431	0	0	1,126	28,535	770	0	21
<b>State rank</b>	24	36	na	21	22	10	9	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# MISSISSIPPI

## Science and Engineering Profile

	Mississippi	U.S.	Rank		Mississippi	U.S.	Rank
Doctoral scientists, 1993	2,453	430,332	36	Total R&D performance, 1993 (millions)	\$325	\$161,427	41
Doctoral engineers, 1993	533	81,293	33	Industry R&D, 1993 (millions)	\$52	\$117,622	46
S&E doctorates awarded, 1995	172	26,482	36	Academic R&D, 1994 (millions)	\$114	\$20,573	36
of which, in life sciences	37%	24%		of which, in life sciences	54%	55%	
in psychology	24%	13%		in engineering	19%	16%	
in engineering	16%	23%		in physical sciences	12%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	93	36,143	37	expenditures, 1993 (millions)	\$1,219	\$163,994	35
S&E graduate students, 1994				Number of SBIR awards, 1990-94	15	18,023	44
in doctorate-granting institutions	3,096	438,694	35	Patents issued to state residents, 1995	105	55,717	45
Population, 1995 (000s)	2,697	262,755	31	Gross state product, 1992 (billions)	\$44.3	\$5,994.1	32
Civilian labor force, 1995 (000s)	1,258	132,281	32	of which, agriculture	3%	2%	
Personal income per capita, 1995	\$16,531	\$22,788	51	manufacturing, mining, construction	29%	23%	
Federal spending				transportation, communication, utilities	12%	9%	
Total expenditures, 1995 (millions)	\$14,233	\$1,326,294	30	wholesale and retail trade	15%	16%	
R&D obligations, 1994 (millions)	\$256	\$65,654	31	finance, insurance, real estate	14%	18%	
				services	12%	20%	
				government	14%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in Mississippi by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	255,734	124,493	0	81,135	41,411	4,974	3,721	31
<b>Department of Agriculture</b>	49,570	35,530	0	0	13,252	788	0	6
<b>Department of Commerce</b>	56,948	6,153	0	49,999	558	0	238	4
<b>Department of Defense</b>	82,538	58,776	0	14,911	6,816	2,035	0	29
<b>Department of Energy</b>	3,673	223	0	1,284	2,166	0	0	43
<b>Dept. of Health &amp; Human Services</b>	14,060	0	0	129	11,507	349	2,075	44
<b>Department of the Interior</b>	2,959	2,460	0	0	499	0	0	39
<b>Department of Transportation</b>	2,009	950	0	0	179	0	880	36
<b>Environmental Protection Agency</b>	538	0	0	0	50	0	488	39
<b>Nat'l Aeronautics &amp; Space Admin.</b>	38,281	20,263	0	14,812	1,404	1,802	0	16
<b>National Science Foundation</b>	5,158	138	0	0	4,980	0	40	45
<b>State rank</b>	31	19	na	30	40	36	22	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# MISSOURI

## Science and Engineering Profile

	Missouri	U.S.	Rank		Missouri	U.S.	Rank
Doctoral scientists, 1993	7,671	430,332	19	Total R&D performance, 1993 (millions)	\$1,789	\$161,427	23
Doctoral engineers, 1993	1,126	81,293	23	Industry R&D, 1993 (millions)	\$1,375	\$117,622	18
S&E doctorates awarded, 1995	411	26,482	22	Academic R&D, 1994 (millions)	\$375	\$20,573	17
of which, in life sciences	27%	24%		of which, in life sciences	77%	55%	
in engineering	25%	23%		in engineering	8%	16%	
in psychology	17%	13%		in physical sciences	6%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	767	36,143	13	expenditures, 1993 (millions)	\$3,249	\$163,994	17
S&E graduate students, 1994				Number of SBIR awards, 1990-94	80	18,023	27
in doctorate-granting institutions	6,920	438,694	21	Patents issued to state residents, 1995	670	55,717	23
Population, 1995 (000s)	5,324	262,755	16	Gross state product, 1992 (billions)	\$111.6	\$5,994.1	17
Civilian labor force, 1995 (000s)	2,832	132,281	16	of which, agriculture	2%	2%	
Personal income per capita, 1995	\$21,627	\$22,788	27	manufacturing, mining, construction	24%	23%	
Federal spending				transportation, communication, utilities	11%	9%	
Total expenditures, 1995 (millions)	\$31,418	\$1,326,294	14	wholesale and retail trade	18%	16%	
R&D obligations, 1994 (millions)	\$2,272	\$65,654	10	finance, insurance, real estate	16%	18%	
				services	19%	20%	
				government	11%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in Missouri by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	2,271,683	58,262	0	1,971,805	220,545	17,416	3,655	10
<b>Department of Agriculture</b>	19,067	6,642	0	80	12,345	0	0	26
<b>Department of Commerce</b>	426	136	0	32	172	86	0	39
<b>Department of Defense</b>	2,010,504	37,455	0	1,963,358	8,854	837	0	6
<b>Department of Energy</b>	5,513	0	0	20	4,799	694	0	40
<b>Dept. of Health &amp; Human Services</b>	191,928	27	0	1,420	173,673	14,816	1,992	15
<b>Department of the Interior</b>	15,262	13,957	0	345	960	0	0	13
<b>Department of Transportation</b>	2,506	0	0	604	239	0	1,663	33
<b>Environmental Protection Agency</b>	1,723	0	0	1,411	312	0	0	27
<b>Nat'l Aeronautics &amp; Space Admin.</b>	8,946	45	0	4,340	4,491	70	0	31
<b>National Science Foundation</b>	15,808	0	0	195	14,700	913	0	27
<b>State rank</b>	10	30	na	5	17	23	23	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# MONTANA

## Science and Engineering Profile

	Montana	U.S.	Rank		Montana	U.S.	Rank
Doctoral scientists, 1993	1,581	430,332	44	Total R&D performance, 1993 (millions)	\$85	\$161,427	49
Doctoral engineers, 1993	111	81,293	48	Industry R&D, 1993 (millions)	\$14	\$117,622	49
S&E doctorates awarded, 1995	47	26,482	47	Academic R&D, 1994 (millions)	\$53	\$20,573	46
of which, in life sciences	34%	24%		of which, in life sciences	67%	55%	
in physical sciences	19%	14%		in physical sciences	9%	10%	
in psychology	17%	13%		in engineering	9%	16%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	27	36,143	48	expenditures, 1993 (millions)	\$377	\$163,994	48
S&E graduate students, 1994				Number of SBIR awards, 1990-94	31	18,023	40
in doctorate-granting institutions	1,296	438,694	44	Patents issued to state residents, 1995	122	55,717	42
Population, 1995 (000s)	870	262,755	44	Gross state product, 1992 (billions)	\$15.2	\$5,994.1	47
Civilian labor force, 1995 (000s)	436	132,281	44	of which, agriculture	6%	2%	
Personal income per capita, 1995	\$18,482	\$22,788	45	manufacturing, mining, construction	18%	23%	
Federal spending				transportation, communication, utilities	13%	9%	
Total expenditures, 1995 (millions)	\$4,808	\$1,326,294	45	wholesale and retail trade	16%	16%	
R&D obligations, 1994 (millions)	\$56	\$65,654	46	finance, insurance, real estate	17%	18%	
				services	17%	20%	
				government	15%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in Montana by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	56,420	28,782	0	3,873	21,368	1,018	1,379	46
<b>Department of Agriculture</b>	14,687	9,912	0	0	4,704	71	0	34
<b>Department of Commerce</b>	400	0	0	0	400	0	0	40
<b>Department of Defense</b>	1,264	64	0	142	1,023	35	0	50
<b>Department of Energy</b>	3,789	480	0	2,959	100	0	250	42
<b>Dept. of Health &amp; Human Services</b>	19,386	13,261	0	162	4,796	912	255	43
<b>Department of the Interior</b>	5,546	5,030	0	67	449	0	0	30
<b>Department of Transportation</b>	874	0	0	0	0	0	874	45
<b>Environmental Protection Agency</b>	134	0	0	0	134	0	0	45
<b>Nat'l Aeronautics &amp; Space Admin.</b>	1,722	35	0	543	1,144	0	0	41
<b>National Science Foundation</b>	8,618	0	0	0	8,618	0	0	38
<b>State rank</b>	46	42	na	48	46	48	42	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# NEBRASKA

## Science and Engineering Profile

	Nebraska	U.S.	Rank		Nebraska	U.S.	Rank
Doctoral scientists, 1993	2,416	430,332	37	Total R&D performance, 1993 (millions)	\$295	\$161,427	43
Doctoral engineers, 1993	288	81,293	41	Industry R&D, 1993 (millions)	\$128	\$117,622	42
S&E doctorates awarded, 1995	141	26,482	37	Academic R&D, 1994 (millions)	\$146	\$20,573	34
of which, in life sciences	43%	24%		of which, in life sciences	78%	55%	
in psychology	16%	13%		in engineering	10%	16%	
in physical sciences	13%	14%		in physical sciences	5%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	167	36,143	33	expenditures, 1993 (millions)	\$1,256	\$163,994	34
S&E graduate students, 1994				Number of SBIR awards, 1990-94	33	18,023	38
in doctorate-granting institutions	2,472	438,694	36	Patents issued to state residents, 1995	136	55,717	40
Population, 1995 (000s)	1,637	262,755	37	Gross state product, 1992 (billions)	\$37.2	\$5,994.1	35
Civilian labor force, 1995 (000s)	897	132,281	35	of which, agriculture	10%	2%	
Personal income per capita, 1995	\$21,703	\$22,788	26	manufacturing, mining, construction	16%	23%	
Federal spending				transportation, communication, utilities	10%	9%	
Total expenditures, 1995 (millions)	\$7,692	\$1,326,294	38	wholesale and retail trade	16%	16%	
R&D obligations, 1994 (millions)	\$85	\$65,654	43	finance, insurance, real estate	17%	18%	
				services	16%	20%	
				government	15%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in Nebraska by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	85,176	27,942	0	6,440	42,931	5,788	2,075	43
<b>Department of Agriculture</b>	26,382	17,898	0	0	8,484	0	0	18
<b>Department of Commerce</b>	114	0	0	0	114	0	0	43
<b>Department of Defense</b>	19,504	6,894	0	5,033	7,577	0	0	39
<b>Department of Energy</b>	1,364	0	0	550	814	0	0	48
<b>Dept. of Health &amp; Human Services</b>	25,483	0	0	78	18,255	5,788	1,362	38
<b>Department of the Interior</b>	3,640	3,150	0	0	490	0	0	36
<b>Department of Transportation</b>	733	0	0	0	40	0	693	47
<b>Environmental Protection Agency</b>	45	0	0	0	25	0	20	47
<b>Nat'l Aeronautics &amp; Space Admin.</b>	1,656	0	0	311	1,345	0	0	42
<b>National Science Foundation</b>	6,255	0	0	468	5,787	0	0	43
<b>State rank</b>	43	43	na	47	37	32	35	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# NEVADA

## Science and Engineering Profile

	Nevada	U.S.	Rank		Nevada	U.S.	Rank
Doctoral scientists, 1993	1,300	430,332	47	Total R&D performance, 1993 (millions)	\$218	\$161,427	45
Doctoral engineers, 1993	229	81,293	43	Industry R&D, 1993 (millions)	\$67	\$117,622	44
S&E doctorates awarded, 1995	54	26,482	44	Academic R&D, 1994 (millions)	\$83	\$20,573	39
of which, in life sciences	26%	24%		of which, in environmental sciences	34%	7%	
in engineering	22%	23%		in life sciences	28%	55%	
in environmental sciences	19%	3%		in engineering	12%	16%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	53	36,143	43	expenditures, 1993 (millions)	\$383	\$163,994	47
S&E graduate students, 1994				Number of SBIR awards, 1990-94	38	18,023	37
in doctorate-granting institutions	1,587	438,694	43	Patents issued to state residents, 1995	167	55,717	38
Population, 1995 (000s)	1,530	262,755	38	Gross state product, 1992 (billions)	\$36.8	\$5,994.1	36
Civilian labor force, 1995 (000s)	801	132,281	36	of which, agriculture	1%	2%	
Personal income per capita, 1995	\$25,013	\$22,788	8	manufacturing, mining, construction	15%	23%	
Federal spending				transportation, communication, utilities	8%	9%	
Total expenditures, 1995 (millions)	\$6,628	\$1,326,294	40	wholesale and retail trade	13%	16%	
R&D obligations, 1994 (millions)	\$348	\$65,654	28	finance, insurance, real estate	17%	18%	
				services	36%	20%	
				government	10%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in Nevada by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	347,665	51,140	0	270,869	22,616	1,295	1,745	28
<b>Department of Agriculture</b>	3,133	964	0	0	2,169	0	0	50
<b>Department of Commerce</b>	580	0	0	0	84	0	496	37
<b>Department of Defense</b>	33,347	28,852	0	3,097	1,300	98	0	35
<b>Department of Energy</b>	263,080	75	0	260,438	2,567	0	0	8
<b>Dept. of Health &amp; Human Services</b>	7,828	0	0	0	6,183	1,160	485	45
<b>Department of the Interior</b>	17,984	15,567	0	215	2,202	0	0	10
<b>Department of Transportation</b>	3,975	0	0	3,450	0	0	525	28
<b>Environmental Protection Agency</b>	10,219	5,580	0	3,483	917	0	239	13
<b>Nat'l Aeronautics &amp; Space Admin.</b>	652	102	0	123	427	0	0	48
<b>National Science Foundation</b>	6,867	0	0	63	6,767	37	0	41
<b>State rank</b>	28	32	na	18	45	45	38	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.



# NEW HAMPSHIRE

## Science and Engineering Profile

	N.H.	U.S.	Rank		N.H.	U.S.	Rank
Doctoral scientists, 1993	1,845	430,332	41	Total R&D performance, 1993 (millions)	\$438	\$161,427	37
Doctoral engineers, 1993	364	81,293	38	Industry R&D, 1993 (millions)	\$248	\$117,622	38
S&E doctorates awarded, 1995	87	26,482	40	Academic R&D, 1994 (millions)	\$102	\$20,573	37
of which, in life sciences	38%	24%		of which, in life sciences	52%	55%	
in physical sciences	26%	14%		in environmental sciences	24%	7%	
in engineering	13%	23%		in engineering	10%	16%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	98	36,143	36	expenditures, 1993 (millions)	\$791	\$163,994	39
S&E graduate students, 1994				Number of SBIR awards, 1990-94	195	18,023	23
in doctorate-granting institutions	1,150	438,694	46	Patents issued to state residents, 1995	404	55,717	30
Population, 1995 (000s)	1,148	262,755	42	Gross state product, 1992 (billions)	\$25.5	\$5,994.1	42
Civilian labor force, 1995 (000s)	633	132,281	40	of which, agriculture	1%	2%	
Personal income per capita, 1995	\$25,151	\$22,788	7	manufacturing, mining, construction	25%	23%	
Federal spending				transportation, communication, utilities	8%	9%	
Total expenditures, 1995 (millions)	\$4,856	\$1,326,294	44	wholesale and retail trade	16%	16%	
R&D obligations, 1994 (millions)	\$219	\$65,654	34	finance, insurance, real estate	21%	18%	
				services	20%	20%	
				government	10%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in New Hampshire by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	218,891	32,599	0	116,029	67,885	1,769	609	34
<b>Department of Agriculture</b>	5,000	2,324	0	80	2,596	0	0	48
<b>Department of Commerce</b>	742	0	0	0	701	0	41	36
<b>Department of Defense</b>	148,698	26,161	0	110,055	11,585	897	0	26
<b>Department of Energy</b>	1,502	0	0	0	1,497	5	0	47
<b>Dept. of Health &amp; Human Services</b>	35,335	0	0	1,172	33,138	867	158	34
<b>Department of the Interior</b>	1,318	1,078	0	0	240	0	0	50
<b>Department of Transportation</b>	1,856	1,442	0	4	0	0	410	38
<b>Environmental Protection Agency</b>	333	0	0	0	333	0	0	42
<b>Nat'l Aeronautics &amp; Space Admin.</b>	14,146	211	0	4,465	9,470	0	0	25
<b>National Science Foundation</b>	9,961	1,383	0	253	8,325	0	0	36
<b>State rank</b>	34	40	na	25	32	43	49	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# NEW JERSEY

## Science and Engineering Profile

	New Jersey	U.S.	Rank		New Jersey	U.S.	Rank
Doctoral scientists, 1993	16,898	430,332	8	Total R&D performance, 1993 (millions)	\$9,182	\$161,427	5
Doctoral engineers, 1993	4,180	81,293	4	Industry R&D, 1993 (millions)	\$8,162	\$117,622	4
S&E doctorates awarded, 1995	627	26,482	13	Academic R&D, 1994 (millions)	\$406	\$20,573	16
of which, in engineering	22%	23%		of which, in life sciences	45%	55%	
in life sciences	20%	24%		in engineering	17%	16%	
in physical sciences	17%	14%		in physical sciences	11%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	619	36,143	18	expenditures, 1993 (millions)	\$3,798	\$163,994	12
S&E graduate students, 1994				Number of SBIR awards, 1990-94	581	18,023	9
in doctorate-granting institutions	10,091	438,694	12	Patents issued to state residents, 1995	2,753	55,717	6
Population, 1995 (000s)	7,945	262,755	9	Gross state product, 1992 (billions)	\$223.1	\$5,994.1	8
Civilian labor force, 1995 (000s)	4,064	132,281	9	of which, agriculture	1%	2%	
Personal income per capita, 1995	\$28,858	\$22,788	3	manufacturing, mining, construction	20%	23%	
Federal spending				transportation, communication, utilities	9%	9%	
Total expenditures, 1995 (millions)	\$37,587	\$1,326,294	10	wholesale and retail trade	17%	16%	
R&D obligations, 1994 (millions)	\$1,392	\$65,654	15	finance, insurance, real estate	21%	18%	
				services	22%	20%	
				government	11%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in New Jersey by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	1,391,942	438,937	102,134	632,130	200,007	14,020	4,714	15
<b>Department of Agriculture</b>	6,999	888	0	0	6,111	0	0	41
<b>Department of Commerce</b>	23,470	17,067	0	2,852	3,370	48	133	10
<b>Department of Defense</b>	844,521	374,285	183	421,584	44,559	3,910	0	12
<b>Department of Energy</b>	127,413	0	101,843	13,622	11,851	97	0	12
<b>Dept. of Health &amp; Human Services</b>	103,296	0	0	9,998	82,469	9,210	1,619	23
<b>Department of the Interior</b>	4,351	2,900	0	797	151	0	503	33
<b>Department of Transportation</b>	85,443	43,490	0	37,589	1,927	0	2,437	2
<b>Environmental Protection Agency</b>	2,381	0	0	563	1,818	0	0	23
<b>Nat'l Aeronautics &amp; Space Admin.</b>	149,077	307	0	142,206	6,182	382	0	9
<b>National Science Foundation</b>	44,991	0	108	2,919	41,569	373	22	14
<b>State rank</b>	15	9	11	14	18	25	14	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# NEW MEXICO

## Science and Engineering Profile

	New Mexico	U.S.	Rank		New Mexico	U.S.	Rank
Doctoral scientists, 1993	5,386	430,332	25	Total R&D performance, 1993 (millions)	\$2,752	\$161,427	17
Doctoral engineers, 1993	1,697	81,293	14	Industry R&D, 1993 (millions)	\$962	\$117,622	23
S&E doctorates awarded, 1995	176	26,482	35	Academic R&D, 1994 (millions)	\$192	\$20,573	30
of which, in engineering	29%	23%		of which, in engineering	49%	16%	
in life sciences	22%	24%		in life sciences	26%	55%	
in physical sciences	14%	14%		in environmental sciences	8%	7%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	84	36,143	40	expenditures, 1993 (millions)	\$1,103	\$163,994	36
S&E graduate students, 1994				Number of SBIR awards, 1990-94	366	18,023	13
in doctorate-granting institutions	3,549	438,694	33	Patents issued to state residents, 1995	255	55,717	35
Population, 1995 (000s)	1,685	262,755	36	Gross state product, 1992 (billions)	\$31.9	\$5,994.1	39
Civilian labor force, 1995 (000s)	788	132,281	38	of which, agriculture	3%	2%	
Personal income per capita, 1995	\$18,055	\$22,788	48	manufacturing, mining, construction	24%	23%	
Federal spending				transportation, communication, utilities	10%	9%	
Total expenditures, 1995 (millions)	\$11,794	\$1,326,294	34	wholesale and retail trade	14%	16%	
R&D obligations, 1994 (millions)	\$1,894	\$65,654	12	finance, insurance, real estate	14%	18%	
				services	18%	20%	
				government	18%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in New Mexico by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	1,894,083	381,366	1,263,387	158,263	83,308	5,688	2,071	12
<b>Department of Agriculture</b>	6,587	2,896	0	0	3,616	75	0	43
<b>Department of Commerce</b>	30	0	0	0	30	0	0	46
<b>Department of Defense</b>	603,738	319,808	139,707	124,686	19,036	501	0	16
<b>Department of Energy</b>	1,178,992	33,552	1,115,870	20,537	8,095	938	0	1
<b>Dept. of Health &amp; Human Services</b>	36,718	1,294	6,478	1,817	23,017	2,947	1,165	33
<b>Department of the Interior</b>	5,616	4,855	450	60	251	0	0	29
<b>Department of Transportation</b>	5,664	4,285	0	242	231	0	906	22
<b>Environmental Protection Agency</b>	857	0	0	675	182	0	0	36
<b>Nat'l Aeronautics &amp; Space Admin.</b>	45,072	14,044	882	9,595	20,362	189	0	14
<b>National Science Foundation</b>	10,809	632	0	651	8,488	1,038	0	33
<b>State rank</b>	12	10	2	22	30	33	36	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# NEW YORK

## Science and Engineering Profile

	New York	U.S.	Rank		New York	U.S.	Rank
Doctoral scientists, 1993	36,882	430,332	2	Total R&D performance, 1993 (millions)	\$10,975	\$161,427	2
Doctoral engineers, 1993	5,410	81,293	3	Industry R&D, 1993 (millions)	\$8,820	\$117,622	3
S&E doctorates awarded, 1995	2,471	26,482	2	Academic R&D, 1994 (millions)	\$1,660	\$20,573	2
of which, in life sciences	23%	24%		of which, in life sciences	64%	55%	
in social sciences	18%	15%		in engineering	13%	16%	
in engineering	17%	23%		in physical sciences	9%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	2,878	36,143	3	expenditures, 1993 (millions)	\$15,634	\$163,994	2
S&E graduate students, 1994				Number of SBIR awards, 1990-94	858	18,023	5
in doctorate-granting institutions	40,781	438,694	2	Patents issued to state residents, 1995	4,684	55,717	2
Population, 1995 (000s)	18,136	262,755	3	Gross state product, 1992 (billions)	\$497.6	\$5,994.1	2
Civilian labor force, 1995 (000s)	8,493	132,281	3	of which, agriculture	1%	2%	
Personal income per capita, 1995	\$26,782	\$22,788	5	manufacturing, mining, construction	17%	23%	
Federal spending				transportation, communication, utilities	8%	9%	
Total expenditures, 1995 (millions)	\$93,781	\$1,326,294	2	wholesale and retail trade	14%	16%	
R&D obligations, 1994 (millions)	\$2,699	\$65,654	8	finance, insurance, real estate	26%	18%	
				services	23%	20%	
				government	11%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in New York by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	2,698,717	151,024	197,809	1,027,741	1,046,333	195,939	79,871	8
<b>Department of Agriculture</b>	32,753	15,190	0	374	16,249	940	0	16
<b>Department of Commerce</b>	7,220	696	145	3,724	2,550	2	103	17
<b>Department of Defense</b>	889,190	107,955	6,290	664,693	103,346	6,906	0	10
<b>Department of Energy</b>	569,090	18,139	184,510	312,758	52,190	1,493	0	3
<b>Dept. of Health &amp; Human Services</b>	934,914	220	3,872	15,878	665,974	174,501	74,469	3
<b>Department of the Interior</b>	6,396	5,050	0	768	561	0	17	26
<b>Department of Transportation</b>	12,594	0	0	7,844	233	33	4,484	12
<b>Environmental Protection Agency</b>	5,879	0	0	3,080	2,165	0	634	16
<b>Nat'l Aeronautics &amp; Space Admin.</b>	44,276	3,774	1,810	14,989	22,451	1,187	65	15
<b>National Science Foundation</b>	196,405	0	1,182	3,633	180,614	10,877	99	2
<b>State rank</b>	8	17	7	9	2	4	1	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# NORTH CAROLINA

## Science and Engineering Profile

	N. Carolina	U.S.	Rank		N. Carolina	U.S.	Rank
Doctoral scientists, 1993	12,189	430,332	12	Total R&D performance, 1993 (millions)	\$2,745	\$161,427	18
Doctoral engineers, 1993	1,388	81,293	16	Industry R&D, 1993 (millions)	\$1,929	\$117,622	17
S&E doctorates awarded, 1995	691	26,482	9	Academic R&D, 1994 (millions)	\$658	\$20,573	9
of which, in life sciences	35%	24%		of which, in life sciences	71%	55%	
in engineering	20%	23%		in engineering	10%	16%	
in social sciences	14%	15%		in social sciences	5%	4%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	1,372	36,143	6	expenditures, 1993 (millions)	\$5,012	\$163,994	9
S&E graduate students, 1994				Number of SBIR awards, 1990-94	209	18,023	22
in doctorate-granting institutions	9,570	438,694	14	Patents issued to state residents, 1995	1,038	55,717	16
Population, 1995 (000s)	7,195	262,755	11	Gross state product, 1992 (billions)	\$159.6	\$5,994.1	11
Civilian labor force, 1995 (000s)	3,636	132,281	10	of which, agriculture	2%	2%	
Personal income per capita, 1995	\$20,604	\$22,788	34	manufacturing, mining, construction	34%	23%	
Federal spending				transportation, communication, utilities	8%	9%	
Total expenditures, 1995 (millions)	\$30,656	\$1,326,294	15	wholesale and retail trade	15%	16%	
R&D obligations, 1994 (millions)	\$734	\$65,654	21	finance, insurance, real estate	14%	18%	
				services	14%	20%	
				government	13%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in North Carolina by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	734,323	112,716	0	113,980	448,777	45,822	13,028	21
<b>Department of Agriculture</b>	34,665	18,579	0	3	16,065	18	0	13
<b>Department of Commerce</b>	13,907	6,532	0	1,156	6,075	0	144	13
<b>Department of Defense</b>	133,173	45,651	0	45,428	40,023	2,071	0	27
<b>Department of Energy</b>	13,107	895	0	1,399	9,413	1,400	0	32
<b>Dept. of Health &amp; Human Services</b>	359,925	852	0	10,791	307,325	38,120	2,837	7
<b>Department of the Interior</b>	3,662	3,147	0	8	357	0	150	35
<b>Department of Transportation</b>	4,648	13	0	53	2,711	0	1,871	26
<b>Environmental Protection Agency</b>	117,578	36,820	0	52,993	19,739	0	8,026	2
<b>Nat'l Aeronautics &amp; Space Admin.</b>	10,462	127	0	1,748	6,668	1,919	0	29
<b>National Science Foundation</b>	43,196	100	0	401	40,401	2,294	0	16
<b>State rank</b>	21	20	na	26	7	13	4	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# NORTH DAKOTA

## Science and Engineering Profile

	N. Dakota	U.S.	Rank		N. Dakota	U.S.	Rank
Doctoral scientists, 1993	1,107	430,332	48	Total R&D performance, 1993 (millions)	\$91	\$161,427	48
Doctoral engineers, 1993	147	81,293	47	Industry R&D, 1993 (millions)	\$9	\$117,622	51
S&E doctorates awarded, 1995	53	26,482	45	Academic R&D, 1994 (millions)	\$56	\$20,573	44
of which, in life sciences	42%	24%		of which, in life sciences	52%	55%	
in psychology	26%	13%		in engineering	24%	16%	
in physical sciences	15%	14%		in physical sciences	9%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	45	36,143	45	expenditures, 1993 (millions)	\$453	\$163,994	45
S&E graduate students, 1994				Number of SBIR awards, 1990-94	12	18,023	46
in doctorate-granting institutions	999	438,694	47	Patents issued to state residents, 1995	58	55,717	47
Population, 1995 (000s)	641	262,755	47	Gross state product, 1992 (billions)	\$13.1	\$5,994.1	49
Civilian labor force, 1995 (000s)	334	132,281	47	of which, agriculture	12%	2%	
Personal income per capita, 1995	\$18,663	\$22,788	43	manufacturing, mining, construction	15%	23%	
Federal spending				transportation, communication, utilities	9%	9%	
Total expenditures, 1995 (millions)	\$3,777	\$1,326,294	48	wholesale and retail trade	18%	16%	
R&D obligations, 1994 (millions)	\$50	\$65,654	47	finance, insurance, real estate	15%	18%	
				services	15%	20%	
				government	15%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in North Dakota by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	49,580	25,504	0	597	21,109	1,270	1,100	48
<b>Department of Agriculture</b>	25,753	19,863	0	0	5,890	0	0	19
<b>Department of Commerce</b>	387	0	0	0	0	0	387	41
<b>Department of Defense</b>	1,725	20	0	452	1,253	0	0	49
<b>Department of Energy</b>	6,145	0	0	0	6,145	0	0	38
<b>Dept. of Health &amp; Human Services</b>	4,485	0	0	0	3,033	1,270	182	48
<b>Department of the Interior</b>	5,973	5,621	0	13	339	0	0	28
<b>Department of Transportation</b>	531	0	0	0	0	0	531	50
<b>Environmental Protection Agency</b>	2,497	0	0	55	2,442	0	0	21
<b>Nat'l Aeronautics &amp; Space Admin.</b>	318	0	0	77	241	0	0	51
<b>National Science Foundation</b>	1,766	0	0	0	1,766	0	0	51
<b>State rank</b>	48	44	na	51	47	46	46	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# OHIO

## Science and Engineering Profile

	Ohio	U.S.	Rank		Ohio	U.S.	Rank
Doctoral scientists, 1993	14,727	430,332	9	Total R&D performance, 1993 (millions)	\$6,395	\$161,427	10
Doctoral engineers, 1993	3,888	81,293	5	Industry R&D, 1993 (millions)	\$5,144	\$117,622	8
S&E doctorates awarded, 1995	1,065	26,482	7	Academic R&D, 1994 (millions)	\$623	\$20,573	10
of which, in engineering	28%	23%		of which, in life sciences	51%	55%	
in life sciences	23%	24%		in engineering	27%	16%	
in physical sciences	17%	14%		in physical sciences	9%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	968	36,143	12	expenditures, 1993 (millions)	\$6,086	\$163,994	7
S&E graduate students, 1994				Number of SBIR awards, 1990-94	468	18,023	11
in doctorate-granting institutions	22,084	438,694	5	Patents issued to state residents, 1995	2,418	55,717	8
Population, 1995 (000s)	11,151	262,755	7	Gross state product, 1992 (billions)	\$241.6	\$5,994.1	7
Civilian labor force, 1995 (000s)	5,584	132,281	7	of which, agriculture	1%	2%	
Personal income per capita, 1995	\$22,021	\$22,788	22	manufacturing, mining, construction	30%	23%	
Federal spending				transportation, communication, utilities	8%	9%	
Total expenditures, 1995 (millions)	\$50,543	\$1,326,294	8	wholesale and retail trade	16%	16%	
R&D obligations, 1994 (millions)	\$1,734	\$65,654	14	finance, insurance, real estate	16%	18%	
				services	18%	20%	
				government	10%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in Ohio by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	1,734,371	585,982	0	732,833	333,732	77,365	4,459	14
<b>Department of Agriculture</b>	16,521	7,274	0	6	9,226	8	7	29
<b>Department of Commerce</b>	2,906	0	0	1,972	913	21	0	25
<b>Department of Defense</b>	814,577	289,826	0	455,216	51,259	18,276	0	14
<b>Department of Energy</b>	25,550	0	0	16,407	7,397	1,746	0	23
<b>Dept. of Health &amp; Human Services</b>	259,485	13,173	0	10,292	187,556	47,419	1,045	10
<b>Department of the Interior</b>	3,801	3,122	0	0	679	0	0	34
<b>Department of Transportation</b>	11,456	5,194	0	876	1,404	1,523	2,459	13
<b>Environmental Protection Agency</b>	47,838	22,096	0	6,489	18,522	0	731	3
<b>Nat'l Aeronautics &amp; Space Admin.</b>	516,892	245,297	0	240,739	22,267	8,372	217	6
<b>National Science Foundation</b>	35,345	0	0	836	34,509	0	0	19
<b>State rank</b>	14	6	na	11	10	9	16	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.



# OKLAHOMA

## Science and Engineering Profile

	Oklahoma	U.S.	Rank		Oklahoma	U.S.	Rank
Doctoral scientists, 1993	3,945	430,332	30	Total R&D performance, 1993 (millions)	\$533	\$161,427	32
Doctoral engineers, 1993	928	81,293	26	Industry R&D, 1993 (millions)	\$311	\$117,622	33
S&E doctorates awarded, 1995	227	26,482	31	Academic R&D, 1994 (millions)	\$175	\$20,573	31
of which, in engineering	30%	23%		of which, in life sciences	46%	55%	
in life sciences	20%	24%		in engineering	22%	16%	
in psychology	16%	13%		in physical sciences	9%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	157	36,143	34	expenditures, 1993 (millions)	\$1,443	\$163,994	33
S&E graduate students, 1994				Number of SBIR awards, 1990-94	49	18,023	34
in doctorate-granting institutions	4,737	438,694	30	Patents issued to state residents, 1995	472	55,717	26
Population, 1995 (000s)	3,278	262,755	27	Gross state product, 1992 (billions)	\$60.2	\$5,994.1	29
Civilian labor force, 1995 (000s)	1,547	132,281	30	of which, agriculture	3%	2%	
Personal income per capita, 1995	\$18,152	\$22,788	47	manufacturing, mining, construction	24%	23%	
Federal spending				transportation, communication, utilities	10%	9%	
Total expenditures, 1995 (millions)	\$16,086	\$1,326,294	29	wholesale and retail trade	16%	16%	
R&D obligations, 1994 (millions)	\$141	\$65,654	39	finance, insurance, real estate	15%	18%	
				services	16%	20%	
				government	16%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in Oklahoma by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	141,471	53,850	0	36,364	41,567	8,005	1,685	39
<b>Department of Agriculture</b>	16,702	9,253	0	0	7,414	0	35	28
<b>Department of Commerce</b>	6,423	5,488	0	785	150	0	0	18
<b>Department of Defense</b>	30,727	16,646	0	11,763	2,318	0	0	38
<b>Department of Energy</b>	25,428	1,931	0	20,802	2,695	0	0	24
<b>Dept. of Health &amp; Human Services</b>	25,327	0	0	626	16,520	7,665	516	39
<b>Department of the Interior</b>	2,827	2,620	0	0	172	0	35	41
<b>Department of Transportation</b>	18,090	14,733	0	1,548	710	0	1,099	7
<b>Environmental Protection Agency</b>	4,403	3,179	0	807	417	0	0	18
<b>Nat'l Aeronautics &amp; Space Admin.</b>	875	0	0	33	641	201	0	47
<b>National Science Foundation</b>	10,669	0	0	0	10,530	139	0	35
<b>State rank</b>	39	31	na	38	39	29	39	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# OREGON

## Science and Engineering Profile

	Oregon	U.S.	Rank		Oregon	U.S.	Rank
Doctoral scientists, 1993	5,871	430,332	24	Total R&D performance, 1993 (millions)	\$774	\$161,427	29
Doctoral engineers, 1993	789	81,293	30	Industry R&D, 1993 (millions)	\$471	\$117,622	30
S&E doctorates awarded, 1995	301	26,482	25	Academic R&D, 1994 (millions)	\$243	\$20,573	27
of which, in life sciences	35%	24%		of which, in life sciences	59%	55%	
in social sciences	15%	15%		in environmental sciences	13%	7%	
in physical sciences	14%	14%		in physical sciences	9%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	311	36,143	27	expenditures, 1993 (millions)	\$1,868	\$163,994	28
S&E graduate students, 1994				Number of SBIR awards, 1990-94	215	18,023	21
in doctorate-granting institutions	4,421	438,694	31	Patents issued to state residents, 1995	705	55,717	22
Population, 1995 (000s)	3,141	262,755	29	Gross state product, 1992 (billions)	\$62.7	\$5,994.1	28
Civilian labor force, 1995 (000s)	1,650	132,281	28	of which, agriculture	4%	2%	
Personal income per capita, 1995	\$21,736	\$22,788	25	manufacturing, mining, construction	22%	23%	
Federal spending				transportation, communication, utilities	9%	9%	
Total expenditures, 1995 (millions)	\$13,756	\$1,326,294	31	wholesale and retail trade	17%	16%	
R&D obligations, 1994 (millions)	\$279	\$65,654	30	finance, insurance, real estate	18%	18%	
				services	18%	20%	
				government	12%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in Oregon by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	279,164	60,178	0	44,341	132,350	34,824	7,471	30
<b>Department of Agriculture</b>	35,229	22,013	0	29	12,812	214	161	12
<b>Department of Commerce</b>	15,004	9,309	0	3,881	1,742	0	72	12
<b>Department of Defense</b>	38,068	1,366	0	25,936	10,333	433	0	34
<b>Department of Energy</b>	15,021	1,175	0	3,450	9,871	0	525	30
<b>Dept. of Health &amp; Human Services</b>	95,614	0	0	3,137	62,039	29,110	1,328	24
<b>Department of the Interior</b>	22,072	20,905	0	384	683	0	100	8
<b>Department of Transportation</b>	4,378	0	0	38	3,473	0	867	27
<b>Environmental Protection Agency</b>	11,801	5,168	0	4,324	2,064	0	245	11
<b>Nat'l Aeronautics &amp; Space Admin.</b>	14,522	242	0	2,018	3,550	4,539	4,173	24
<b>National Science Foundation</b>	27,455	0	0	1,144	25,783	528	0	22
<b>State rank</b>	30	29	na	33	27	16	6	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# PENNSYLVANIA

## Science and Engineering Profile

	Penn.	U.S.	Rank		Penn.	U.S.	Rank
Doctoral scientists, 1993	20,012	430,332	4	Total R&D performance, 1993 (millions)	\$8,278	\$161,427	6
Doctoral engineers, 1993	3,886	81,293	6	Industry R&D, 1993 (millions)	\$6,711	\$117,622	6
S&E doctorates awarded, 1995	1,358	26,482	6	Academic R&D, 1994 (millions)	\$1,085	\$20,573	6
of which, in engineering	30%	23%		of which, in life sciences	55%	55%	
in life sciences	20%	24%		in engineering	20%	16%	
in social sciences	16%	15%		in math & computer sciences	7%	4%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	1,852	36,143	5	expenditures, 1993 (millions)	\$9,672	\$163,994	3
S&E graduate students, 1994				Number of SBIR awards, 1990-94	580	18,023	10
in doctorate-granting institutions	20,096	438,694	7	Patents issued to state residents, 1995	2,645	55,717	7
Population, 1995 (000s)	12,072	262,755	5	Gross state product, 1992 (billions)	\$267.0	\$5,994.1	6
Civilian labor force, 1995 (000s)	5,838	132,281	6	of which, agriculture	1%	2%	
Personal income per capita, 1995	\$23,279	\$22,788	19	manufacturing, mining, construction	24%	23%	
Federal spending				transportation, communication, utilities	9%	9%	
Total expenditures, 1995 (millions)	\$64,281	\$1,326,294	5	wholesale and retail trade	15%	16%	
R&D obligations, 1994 (millions)	\$1,981	\$65,654	11	finance, insurance, real estate	19%	18%	
				services	21%	20%	
				government	10%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in Pennsylvania by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	1,980,531	332,027	26,201	721,534	712,513	182,499	5,757	11
<b>Department of Agriculture</b>	40,272	29,696	0	0	10,566	10	0	8
<b>Department of Commerce</b>	4,583	0	600	2,601	486	847	49	20
<b>Department of Defense</b>	867,248	206,939	25,601	443,832	141,717	49,159	0	11
<b>Department of Energy</b>	347,614	66,763	0	240,074	21,322	19,455	0	6
<b>Dept. of Health &amp; Human Services</b>	526,645	12	0	5,544	419,509	101,093	487	5
<b>Department of the Interior</b>	35,801	27,037	0	6,650	2,084	30	0	4
<b>Department of Transportation</b>	13,025	1,580	0	3,467	3,968	262	3,748	11
<b>Environmental Protection Agency</b>	2,671	0	0	265	1,885	0	521	20
<b>Nat'l Aeronautics &amp; Space Admin.</b>	36,292	0	0	17,049	19,170	73	0	18
<b>National Science Foundation</b>	106,380	0	0	2,052	91,806	11,570	952	5
<b>State rank</b>	11	12	17	13	4	5	10	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# RHODE ISLAND

## Science and Engineering Profile

	R.I.	U.S.	Rank		R.I.	U.S.	Rank
Doctoral scientists, 1993	1,976	430,332	39	Total R&D performance, 1993 (millions)	\$484	\$161,427	33
Doctoral engineers, 1993	317	81,293	40	Industry R&D, 1993 (millions)	\$176	\$117,622	40
S&E doctorates awarded, 1995	178	26,482	34	Academic R&D, 1994 (millions)	\$102	\$20,573	37
of which, in life sciences	21%	24%		of which, in life sciences	31%	55%	
in engineering	19%	23%		in environmental sciences	27%	7%	
in social sciences	17%	15%		in engineering	14%	16%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	146	36,143	35	expenditures, 1993 (millions)	\$921	\$163,994	38
S&E graduate students, 1994				Number of SBIR awards, 1990-94	59	18,023	30
in doctorate-granting institutions	2,207	438,694	38	Patents issued to state residents, 1995	206	55,717	37
Population, 1995 (000s)	990	262,755	43	Gross state product, 1992 (billions)	\$21.6	\$5,994.1	45
Civilian labor force, 1995 (000s)	485	132,281	43	of which, agriculture	1%	2%	
Personal income per capita, 1995	\$23,310	\$22,788	18	manufacturing, mining, construction	23%	23%	
Federal spending				transportation, communication, utilities	6%	9%	
Total expenditures, 1995 (millions)	\$5,763	\$1,326,294	42	wholesale and retail trade	14%	16%	
R&D obligations, 1994 (millions)	\$433	\$65,654	25	finance, insurance, real estate	22%	18%	
				services	22%	20%	
				government	12%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in Rhode Island by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	433,488	238,837	0	116,114	57,866	18,668	2,003	25
<b>Department of Agriculture</b>	2,159	2	0	80	2,038	39	0	51
<b>Department of Commerce</b>	2,710	513	0	405	1,740	0	52	27
<b>Department of Defense</b>	357,060	231,923	0	113,695	11,297	145	0	19
<b>Department of Energy</b>	2,518	0	0	51	2,443	24	0	45
<b>Dept. of Health &amp; Human Services</b>	38,774	0	0	139	20,358	16,872	1,405	32
<b>Department of the Interior</b>	1,700	1,247	0	0	453	0	0	47
<b>Department of Transportation</b>	1,046	402	0	113	0	0	531	44
<b>Environmental Protection Agency</b>	7,247	4,750	0	1,175	1,307	0	15	15
<b>Nat'l Aeronautics &amp; Space Admin.</b>	3,589	0	0	456	2,989	144	0	37
<b>National Science Foundation</b>	16,685	0	0	0	15,241	1,444	0	26
<b>State rank</b>	25	13	na	24	34	21	37	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# SOUTH CAROLINA

## Science and Engineering Profile

	S. Carolina	U.S.	Rank		S. Carolina	U.S.	Rank
Doctoral scientists, 1993	4,106	430,332	29	Total R&D performance, 1993 (millions)	\$713	\$161,427	31
Doctoral engineers, 1993	770	81,293	31	Industry R&D, 1993 (millions)	\$495	\$117,622	29
S&E doctorates awarded, 1995	199	26,482	32	Academic R&D, 1994 (millions)	\$197	\$20,573	29
of which, in life sciences	32%	24%		of which, in life sciences	51%	55%	
in engineering	20%	23%		in engineering	19%	16%	
in physical sciences	17%	14%		in environmental sciences	7%	7%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	239	36,143	29	expenditures, 1993 (millions)	\$1,996	\$163,994	26
S&E graduate students, 1994				Number of SBIR awards, 1990-94	7	18,023	47
in doctorate-granting institutions	4,220	438,694	32	Patents issued to state residents, 1995	441	55,717	27
Population, 1995 (000s)	3,673	262,755	26	Gross state product, 1992 (billions)	\$69.8	\$5,994.1	27
Civilian labor force, 1995 (000s)	1,859	132,281	26	of which, agriculture	1%	2%	
Personal income per capita, 1995	\$18,788	\$22,788	41	manufacturing, mining, construction	31%	23%	
Federal spending				transportation, communication, utilities	8%	9%	
Total expenditures, 1995 (millions)	\$17,814	\$1,326,294	27	wholesale and retail trade	15%	16%	
R&D obligations, 1994 (millions)	\$199	\$65,654	37	finance, insurance, real estate	14%	18%	
				services	14%	20%	
				government	16%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in South Carolina by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	198,537	35,613	59,084	24,594	69,383	6,528	3,335	37
<b>Department of Agriculture</b>	16,131	9,087	0	0	7,044	0	0	31
<b>Department of Commerce</b>	8,848	5,774	0	1,659	1,325	0	90	16
<b>Department of Defense</b>	45,312	18,005	1,901	11,793	7,780	5,833	0	32
<b>Department of Energy</b>	79,044	0	57,183	9,088	12,474	299	0	16
<b>Dept. of Health &amp; Human Services</b>	33,470	50	0	1,420	29,831	150	2,019	35
<b>Department of the Interior</b>	2,827	2,697	0	8	122	0	0	41
<b>Department of Transportation</b>	1,180	0	0	0	140	0	1,040	42
<b>Environmental Protection Agency</b>	521	0	0	0	521	0	0	41
<b>Nat'l Aeronautics &amp; Space Admin.</b>	1,927	0	0	626	928	187	186	40
<b>National Science Foundation</b>	9,277	0	0	0	9,218	59	0	37
<b>State rank</b>	37	39	13	39	31	30	25	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# SOUTH DAKOTA

## Science and Engineering Profile

	S. Dakota	U.S.	Rank		S. Dakota	U.S.	Rank
Doctoral scientists, 1993	975	430,332	50	Total R&D performance, 1993 (millions)	\$58	\$161,427	51
Doctoral engineers, 1993	81	81,293	51	Industry R&D, 1993 (millions)	\$22	\$117,622	47
S&E doctorates awarded, 1995	17	26,482	51	Academic R&D, 1994 (millions)	\$22	\$20,573	51
of which, in life sciences	41%	24%		of which, in life sciences	58%	55%	
in psychology	24%	13%		in environmental sciences	17%	7%	
in social sciences	18%	15%		in engineering	13%	16%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	21	36,143	49	expenditures, 1993 (millions)	\$303	\$163,994	50
S&E graduate students, 1994				Number of SBIR awards, 1990-94	2	18,023	51
in doctorate-granting institutions	1,210	438,694	45	Patents issued to state residents, 1995	33	55,717	51
Population, 1995 (000s)	729	262,755	45	Gross state product, 1992 (billions)	\$15.1	\$5,994.1	47
Civilian labor force, 1995 (000s)	382	132,281	45	of which, agriculture	13%	2%	
Personal income per capita, 1995	\$19,506	\$22,788	38	manufacturing, mining, construction	14%	23%	
Federal spending				transportation, communication, utilities	8%	9%	
Total expenditures, 1995 (millions)	\$3,829	\$1,326,294	47	wholesale and retail trade	17%	16%	
R&D obligations, 1994 (millions)	\$26	\$65,654	51	finance, insurance, real estate	22%	18%	
				services	15%	20%	
				government	13%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in South Dakota by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	26,481	10,979	0	2,710	9,893	1,346	1,553	51
<b>Department of Agriculture</b>	5,754	2,326	0	0	3,428	0	0	45
<b>Department of Commerce</b>	0	0	0	0	0	0	0	na
<b>Department of Defense</b>	601	8	0	40	553	0	0	51
<b>Department of Energy</b>	25	0	0	0	25	0	0	51
<b>Dept. of Health &amp; Human Services</b>	4,658	774	0	255	1,338	1,346	945	47
<b>Department of the Interior</b>	6,138	3,602	0	2,238	298	0	0	27
<b>Department of Transportation</b>	619	0	0	11	0	0	608	49
<b>Environmental Protection Agency</b>	99	0	0	0	99	0	0	46
<b>Nat'l Aeronautics &amp; Space Admin.</b>	5,485	4,269	0	166	1,050	0	0	35
<b>National Science Foundation</b>	3,102	0	0	0	3,102	0	0	50
<b>State rank</b>	51	46	na	50	51	44	41	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# TENNESSEE

## Science and Engineering Profile

	Tennessee	U.S.	Rank		Tennessee	U.S.	Rank
Doctoral scientists, 1993	7,145	430,332	20	Total R&D performance, 1993 (millions)	\$1,214	\$161,427	27
Doctoral engineers, 1993	1,382	81,293	17	Industry R&D, 1993 (millions)	\$792	\$117,622	26
S&E doctorates awarded, 1995	336	26,482	24	Academic R&D, 1994 (millions)	\$306	\$20,573	24
of which, in life sciences	28%	24%		of which, in life sciences	58%	55%	
in engineering	21%	23%		in engineering	17%	16%	
in psychology	18%	13%		in physical sciences	7%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	526	36,143	22	expenditures, 1993 (millions)	\$3,002	\$163,994	19
S&E graduate students, 1994				Number of SBIR awards, 1990-94	182	18,023	24
in doctorate-granting institutions	7,366	438,694	20	Patents issued to state residents, 1995	593	55,717	24
Population, 1995 (000s)	5,256	262,755	17	Gross state product, 1992 (billions)	\$108.9	\$5,994.1	20
Civilian labor force, 1995 (000s)	2,712	132,281	19	of which, agriculture	2%	2%	
Personal income per capita, 1995	\$20,376	\$22,788	37	manufacturing, mining, construction	28%	23%	
Federal spending				transportation, communication, utilities	8%	9%	
Total expenditures, 1995 (millions)	\$26,175	\$1,326,294	17	wholesale and retail trade	18%	16%	
R&D obligations, 1994 (millions)	\$676	\$65,654	23	finance, insurance, real estate	14%	18%	
				services	18%	20%	
				government	12%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in Tennessee by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	675,621	93,026	306,103	80,219	164,428	29,279	2,566	23
<b>Department of Agriculture</b>	10,162	737	0	80	9,340	5	0	39
<b>Department of Commerce</b>	1,161	805	255	0	101	0	0	33
<b>Department of Defense</b>	122,233	80,694	9,964	17,329	14,052	194	0	28
<b>Department of Energy</b>	348,549	1,069	287,838	51,954	7,184	504	0	5
<b>Dept. of Health &amp; Human Services</b>	139,541	726	1,302	1,294	115,458	20,290	471	20
<b>Department of the Interior</b>	3,438	2,784	0	82	572	0	0	37
<b>Department of Transportation</b>	9,512	2,661	3,944	230	582	0	2,095	15
<b>Environmental Protection Agency</b>	1,056	0	0	841	215	0	0	34
<b>Nat'l Aeronautics &amp; Space Admin.</b>	28,528	3,527	2,800	8,147	5,800	8,254	0	19
<b>National Science Foundation</b>	11,441	23	0	262	11,124	32	0	30
<b>State rank</b>	23	25	4	31	24	18	29	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.



# TEXAS

## Science and Engineering Profile

	Texas	U.S.	Rank		Texas	U.S.	Rank
Doctoral scientists, 1993	22,836	430,332	3	Total R&D performance, 1993 (millions)	\$6,966	\$161,427	8
Doctoral engineers, 1993	5,671	81,293	2	Industry R&D, 1993 (millions)	\$4,882	\$117,622	9
S&E doctorates awarded, 1995	1,708	26,482	3	Academic R&D, 1994 (millions)	\$1,466	\$20,573	3
of which, in engineering	27%	23%		of which, in life sciences	59%	55%	
in life sciences	25%	24%		in engineering	17%	16%	
in physical sciences	14%	14%		in physical sciences	9%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	2,128	36,143	4	expenditures, 1993 (millions)	\$8,699	\$163,994	4
S&E graduate students, 1994				Number of SBIR awards, 1990-94	596	18,023	8
in doctorate-granting institutions	27,594	438,694	3	Patents issued to state residents, 1995	3,886	55,717	3
Population, 1995 (000s)	18,724	262,755	2	Gross state product, 1992 (billions)	\$416.9	\$5,994.1	3
Civilian labor force, 1995 (000s)	9,568	132,281	2	of which, agriculture	2%	2%	
Personal income per capita, 1995	\$20,654	\$22,788	33	manufacturing, mining, construction	25%	23%	
Federal spending				transportation, communication, utilities	11%	9%	
Total expenditures, 1995 (millions)	\$83,296	\$1,326,294	3	wholesale and retail trade	16%	16%	
R&D obligations, 1994 (millions)	\$3,658	\$65,654	5	finance, insurance, real estate	16%	18%	
				services	18%	20%	
				government	12%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in Texas by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	3,658,329	564,827	332	2,282,216	635,598	166,564	8,792	5
<b>Department of Agriculture</b>	64,403	45,592	0	140	18,609	0	62	4
<b>Department of Commerce</b>	6,345	2,420	0	2,019	1,589	118	199	19
<b>Department of Defense</b>	1,429,954	143,903	332	1,086,625	87,888	111,206	0	8
<b>Department of Energy</b>	38,831	0	0	10,061	24,875	3,895	0	21
<b>Dept. of Health &amp; Human Services</b>	438,983	78	0	6,933	394,714	34,480	2,778	6
<b>Department of the Interior</b>	7,569	6,608	0	392	464	105	0	22
<b>Department of Transportation</b>	10,347	225	0	3,849	1,630	42	4,601	14
<b>Environmental Protection Agency</b>	14,021	0	0	7,531	5,338	0	1,152	8
<b>Nat'l Aeronautics &amp; Space Admin.</b>	1,575,589	366,001	0	1,163,303	29,916	16,369	0	2
<b>National Science Foundation</b>	72,287	0	0	1,363	70,575	349	0	7
<b>State rank</b>	5	8	18	3	5	6	5	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# UTAH

## Science and Engineering Profile

	Utah	U.S.	Rank		Utah	U.S.	Rank
Doctoral scientists, 1993	3,509	430,332	33	Total R&D performance, 1993 (millions)	\$753	\$161,427	30
Doctoral engineers, 1993	809	81,293	29	Industry R&D, 1993 (millions)	\$411	\$117,622	31
S&E doctorates awarded, 1995	279	26,482	28	Academic R&D, 1994 (millions)	\$201	\$20,573	28
of which, in engineering	30%	23%		of which, in life sciences	46%	55%	
in psychology	19%	13%		in engineering	24%	16%	
in physical sciences	17%	14%		in environmental sciences	10%	7%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	219	36,143	31	expenditures, 1993 (millions)	\$1,629	\$163,994	31
S&E graduate students, 1994				Number of SBIR awards, 1990-94	245	18,023	20
in doctorate-granting institutions	4,830	438,694	29	Patents issued to state residents, 1995	508	55,717	25
Population, 1995 (000s)	1,951	262,755	34	Gross state product, 1992 (billions)	\$35.6	\$5,994.1	37
Civilian labor force, 1995 (000s)	971	132,281	34	of which, agriculture	2%	2%	
Personal income per capita, 1995	\$18,223	\$22,788	46	manufacturing, mining, construction	23%	23%	
Federal spending				transportation, communication, utilities	10%	9%	
Total expenditures, 1995 (millions)	\$8,526	\$1,326,294	37	wholesale and retail trade	16%	16%	
R&D obligations, 1994 (millions)	\$326	\$65,654	29	finance, insurance, real estate	15%	18%	
				services	19%	20%	
				government	15%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in Utah by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	325,650	95,844	0	96,878	125,920	5,630	1,378	29
<b>Department of Agriculture</b>	14,142	8,802	0	0	5,337	0	3	35
<b>Department of Commerce</b>	1,716	0	0	1,261	205	0	250	32
<b>Department of Defense</b>	178,524	75,628	0	68,518	34,378	0	0	24
<b>Department of Energy</b>	9,662	0	0	879	4,483	4,300	0	34
<b>Dept. of Health &amp; Human Services</b>	62,116	0	0	3,415	56,905	1,330	466	28
<b>Department of the Interior</b>	12,779	11,414	0	387	978	0	0	15
<b>Department of Transportation</b>	14,452	0	0	12,858	935	0	659	10
<b>Environmental Protection Agency</b>	0	0	0	0	0	0	0	na
<b>Nat'l Aeronautics &amp; Space Admin.</b>	13,448	0	0	8,986	4,462	0	0	26
<b>National Science Foundation</b>	18,811	0	0	574	18,237	0	0	25
<b>State rank</b>	29	24	na	28	28	34	43	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# VERMONT

## Science and Engineering Profile

	Vermont	U.S.	Rank		Vermont	U.S.	Rank
Doctoral scientists, 1993	1,436	430,332	46	Total R&D performance, 1993 (millions)	\$343	\$161,427	40
Doctoral engineers, 1993	200	81,293	45	Industry R&D, 1993 (millions)	\$284	\$117,622	36
S&E doctorates awarded, 1995	44	26,482	48	Academic R&D, 1994 (millions)	\$52	\$20,573	47
of which, in life sciences	45%	24%		of which, in life sciences	90%	55%	
in psychology	32%	13%		in engineering	4%	16%	
in physical sciences	16%	14%		in physical sciences	2%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	90	36,143	38	expenditures, 1993 (millions)	\$599	\$163,994	42
S&E graduate students, 1994				Number of SBIR awards, 1990-94	47	18,023	36
in doctorate-granting institutions	681	438,694	50	Patents issued to state residents, 1995	148	55,717	39
Population, 1995 (000s)	585	262,755	49	Gross state product, 1992 (billions)	\$11.8	\$5,994.1	51
Civilian labor force, 1995 (000s)	320	132,281	48	of which, agriculture	3%	2%	
Personal income per capita, 1995	\$20,927	\$22,788	32	manufacturing, mining, construction	23%	23%	
Federal spending				transportation, communication, utilities	7%	9%	
Total expenditures, 1995 (millions)	\$2,671	\$1,326,294	50	wholesale and retail trade	16%	16%	
R&D obligations, 1994 (millions)	\$48	\$65,654	49	finance, insurance, real estate	18%	18%	
				services	20%	20%	
				government	12%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in Vermont by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	47,880	3,379	0	6,955	33,727	3,274	545	49
<b>Department of Agriculture</b>	5,625	1,696	0	0	3,929	0	0	47
<b>Department of Commerce</b>	18	0	0	0	18	0	0	47
<b>Department of Defense</b>	6,260	49	0	5,705	506	0	0	46
<b>Department of Energy</b>	544	0	0	0	544	0	0	49
<b>Dept. of Health &amp; Human Services</b>	29,267	0	0	760	25,058	3,274	175	37
<b>Department of the Interior</b>	1,789	1,634	0	55	100	0	0	46
<b>Department of Transportation</b>	370	0	0	0	0	0	370	51
<b>Environmental Protection Agency</b>	204	0	0	0	204	0	0	44
<b>Nat'l Aeronautics &amp; Space Admin.</b>	347	0	0	204	143	0	0	50
<b>National Science Foundation</b>	3,456	0	0	231	3,225	0	0	49
<b>State rank</b>	49	51	na	46	42	40	50	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# VIRGINIA

## Science and Engineering Profile

	Virginia	U.S.	Rank		Virginia	U.S.	Rank
Doctoral scientists, 1993	12,802	430,332	10	Total R&D performance, 1993 (millions)	\$2,939	\$161,427	13
Doctoral engineers, 1993	2,630	81,293	11	Industry R&D, 1993 (millions)	\$1,087	\$117,622	21
S&E doctorates awarded, 1995	663	26,482	12	Academic R&D, 1994 (millions)	\$436	\$20,573	15
of which, in engineering	28%	23%		of which, in life sciences	51%	55%	
in life sciences	21%	24%		in engineering	18%	16%	
in social sciences	13%	15%		in environmental sciences	13%	7%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	654	36,143	16	expenditures, 1993 (millions)	\$3,822	\$163,994	11
S&E graduate students, 1994				Number of SBIR awards, 1990-94	960	18,023	3
in doctorate-granting institutions	12,353	438,694	10	Patents issued to state residents, 1995	822	55,717	21
Population, 1995 (000s)	6,618	262,755	12	Gross state product, 1992 (billions)	\$153.8	\$5,994.1	12
Civilian labor force, 1995 (000s)	3,496	132,281	12	of which, agriculture	1%	2%	
Personal income per capita, 1995	\$23,597	\$22,788	15	manufacturing, mining, construction	21%	23%	
Federal spending				transportation, communication, utilities	9%	9%	
Total expenditures, 1995 (millions)	\$51,305	\$1,326,294	6	wholesale and retail trade	14%	16%	
R&D obligations, 1994 (millions)	\$3,730	\$65,654	4	finance, insurance, real estate	16%	18%	
				services	19%	20%	
				government	20%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in Virginia by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	3,729,683	1,381,817	215,819	1,875,922	195,799	56,060	4,266	4
<b>Department of Agriculture</b>	11,419	1,549	0	50	8,854	966	0	37
<b>Department of Commerce</b>	32,506	8,254	0	20,055	3,915	149	133	8
<b>Department of Defense</b>	2,635,027	970,955	158,590	1,453,218	27,616	24,648	0	3
<b>Department of Energy</b>	76,133	12,619	43,809	10,510	9,115	80	0	17
<b>Dept. of Health &amp; Human Services</b>	149,767	107	0	42,995	96,438	8,857	1,370	19
<b>Department of the Interior</b>	56,036	43,916	0	10,941	1,174	5	0	1
<b>Department of Transportation</b>	52,670	8,043	13,327	28,247	1,723	0	1,330	3
<b>Environmental Protection Agency</b>	37,979	0	0	35,782	764	0	1,433	4
<b>Nat'l Aeronautics &amp; Space Admin.</b>	635,300	333,541	0	270,723	19,487	11,549	0	5
<b>National Science Foundation</b>	42,846	2,833	93	3,401	26,713	9,806	0	17
<b>State rank</b>	4	4	6	6	19	11	17	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# WASHINGTON

## Science and Engineering Profile

	Washington	U.S.	Rank		Washington	U.S.	Rank
Doctoral scientists, 1993	10,216	430,332	15	Total R&D performance, 1993 (millions)	\$5,422	\$161,427	11
Doctoral engineers, 1993	1,848	81,293	13	Industry R&D, 1993 (millions)	\$4,689	\$117,622	10
S&E doctorates awarded, 1995	466	26,482	19	Academic R&D, 1994 (millions)	\$438	\$20,573	14
of which, in life sciences	30%	24%		of which, in life sciences	63%	55%	
in engineering	22%	23%		in environmental sciences	13%	7%	
in social sciences	14%	15%		in engineering	7%	16%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	992	36,143	11	expenditures, 1993 (millions)	\$2,922	\$163,994	20
S&E graduate students, 1994				Number of SBIR awards, 1990-94	357	18,023	14
in doctorate-granting institutions	6,042	438,694	24	Patents issued to state residents, 1995	1,034	55,717	17
Population, 1995 (000s)	5,431	262,755	15	Gross state product, 1992 (billions)	\$127.6	\$5,994.1	14
Civilian labor force, 1995 (000s)	2,805	132,281	17	of which, agriculture	3%	2%	
Personal income per capita, 1995	\$23,639	\$22,788	14	manufacturing, mining, construction	21%	23%	
Federal spending				transportation, communication, utilities	8%	9%	
Total expenditures, 1995 (millions)	\$28,899	\$1,326,294	16	wholesale and retail trade	18%	16%	
R&D obligations, 1994 (millions)	\$950	\$65,654	18	finance, insurance, real estate	17%	18%	
				services	19%	20%	
				government	14%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in Washington by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	950,186	149,445	144,292	252,012	306,621	91,598	6,218	18
<b>Department of Agriculture</b>	35,783	18,915	0	188	16,479	131	70	11
<b>Department of Commerce</b>	59,818	54,990	0	2,086	2,610	0	132	3
<b>Department of Defense</b>	274,002	47,480	3,090	193,005	25,449	4,978	0	21
<b>Department of Energy</b>	167,743	7,532	133,609	8,841	17,345	116	300	10
<b>Dept. of Health &amp; Human Services</b>	290,859	19	7,593	6,333	189,461	83,256	4,197	8
<b>Department of the Interior</b>	22,731	19,643	0	736	2,307	45	0	7
<b>Department of Transportation</b>	3,110	0	0	1,176	438	40	1,456	31
<b>Environmental Protection Agency</b>	858	0	0	0	795	0	63	35
<b>Nat'l Aeronautics &amp; Space Admin.</b>	48,929	866	0	38,431	9,257	375	0	13
<b>National Science Foundation</b>	46,353	0	0	1,216	42,480	2,657	0	13
<b>State rank</b>	18	18	9	19	11	8	7	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# WEST VIRGINIA

## Science and Engineering Profile

	W. Virginia	U.S.	Rank		W. Virginia	U.S.	Rank
Doctoral scientists, 1993	1,546	430,332	45	Total R&D performance, 1993 (millions)	\$280	\$161,427	44
Doctoral engineers, 1993	372	81,293	37	Industry R&D, 1993 (millions)	\$100	\$117,622	43
S&E doctorates awarded, 1995	78	26,482	41	Academic R&D, 1994 (millions)	\$59	\$20,573	43
of which, in engineering	35%	23%		of which, in life sciences	47%	55%	
in life sciences	27%	24%		in engineering	22%	16%	
in physical sciences	15%	14%		in environmental sciences	12%	7%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	31	36,143	47	expenditures, 1993 (millions)	\$739	\$163,994	40
S&E graduate students, 1994				Number of SBIR awards, 1990-94	4	18,023	48
in doctorate-granting institutions	2,047	438,694	39	Patents issued to state residents, 1995	134	55,717	41
Population, 1995 (000s)	1,828	262,755	35	Gross state product, 1992 (billions)	\$30.7	\$5,994.1	40
Civilian labor force, 1995 (000s)	790	132,281	37	of which, agriculture	1%	2%	
Personal income per capita, 1995	\$17,915	\$22,788	49	manufacturing, mining, construction	30%	23%	
Federal spending				transportation, communication, utilities	13%	9%	
Total expenditures, 1995 (millions)	\$10,001	\$1,326,294	36	wholesale and retail trade	14%	16%	
R&D obligations, 1994 (millions)	\$213	\$65,654	35	finance, insurance, real estate	14%	18%	
				services	15%	20%	
				government	12%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in West Virginia by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	212,864	95,891	29,218	43,555	31,741	10,099	2,360	35
<b>Department of Agriculture</b>	20,189	15,104	0	0	3,783	1,302	0	24
<b>Department of Commerce</b>	0	0	0	0	0	0	0	na
<b>Department of Defense</b>	14,528	1,364	0	7,524	1,431	4,209	0	43
<b>Department of Energy</b>	93,528	62,063	0	29,538	1,927	0	0	13
<b>Dept. of Health &amp; Human Services</b>	21,639	9,400	0	1,790	7,522	1,362	1,565	42
<b>Department of the Interior</b>	8,952	7,460	0	24	1,468	0	0	20
<b>Department of Transportation</b>	2,345	0	0	700	850	0	795	34
<b>Environmental Protection Agency</b>	308	0	0	308	0	0	0	43
<b>Nat'l Aeronautics &amp; Space Admin.</b>	19,034	500	0	3,671	11,682	3,181	0	23
<b>National Science Foundation</b>	32,341	0	29,218	0	3,078	45	0	20
<b>State rank</b>	35	23	14	34	43	27	32	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# WISCONSIN

## Science and Engineering Profile

	Wisconsin	U.S.	Rank		Wisconsin	U.S.	Rank
Doctoral scientists, 1993	7,029	430,332	22	Total R&D performance, 1993 (millions)	\$1,851	\$161,427	22
Doctoral engineers, 1993	936	81,293	25	Industry R&D, 1993 (millions)	\$1,343	\$117,622	19
S&E doctorates awarded, 1995	612	26,482	14	Academic R&D, 1994 (millions)	\$467	\$20,573	13
of which, in life sciences	28%	24%		of which, in life sciences	59%	55%	
in engineering	21%	23%		in engineering	13%	16%	
in physical sciences	17%	14%		in physical sciences	9%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	648	36,143	17	expenditures, 1993 (millions)	\$3,429	\$163,994	16
S&E graduate students, 1994				Number of SBIR awards, 1990-94	130	18,023	26
in doctorate-granting institutions	8,942	438,694	17	Patents issued to state residents, 1995	1,209	55,717	13
Population, 1995 (000s)	5,123	262,755	18	Gross state product, 1992 (billions)	\$109.5	\$5,994.1	19
Civilian labor force, 1995 (000s)	2,846	132,281	15	of which, agriculture	3%	2%	
Personal income per capita, 1995	\$21,839	\$22,788	23	manufacturing, mining, construction	31%	23%	
Federal spending				transportation, communication, utilities	8%	9%	
Total expenditures, 1995 (millions)	\$19,815	\$1,326,294	24	wholesale and retail trade	15%	16%	
R&D obligations, 1994 (millions)	\$350	\$65,654	27	finance, insurance, real estate	17%	18%	
				services	16%	20%	
				government	11%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

### Federal Obligations for Research and Development in Wisconsin by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	349,627	40,576	0	37,116	252,386	16,010	3,539	27
<b>Department of Agriculture</b>	37,024	25,257	0	105	11,628	0	34	10
<b>Department of Commerce</b>	2,177	625	0	0	1,502	0	50	30
<b>Department of Defense</b>	39,923	137	0	9,968	21,995	7,823	0	33
<b>Department of Energy</b>	21,328	120	0	0	21,208	0	0	25
<b>Dept. of Health &amp; Human Services</b>	152,319	0	0	1,866	140,333	8,133	1,987	18
<b>Department of the Interior</b>	14,505	13,940	0	150	415	0	0	14
<b>Department of Transportation</b>	3,506	497	0	1,493	123	0	1,393	29
<b>Environmental Protection Agency</b>	1,748	0	0	332	1,416	0	0	26
<b>Nat'l Aeronautics &amp; Space Admin.</b>	37,090	0	0	23,202	13,834	54	0	17
<b>National Science Foundation</b>	40,007	0	0	0	39,932	0	75	18
<b>State rank</b>	27	37	na	36	13	24	24	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.



# WYOMING

## Science and Engineering Profile

	Wyoming	U.S.	Rank		Wyoming	U.S.	Rank
Doctoral scientists, 1993	716	430,332	51	Total R&D performance, 1993 (millions)	\$63	\$161,427	50
Doctoral engineers, 1993	102	81,293	49	Industry R&D, 1993 (millions)	\$15	\$117,622	48
S&E doctorates awarded, 1995	50	26,482	46	Academic R&D, 1994 (millions)	\$34	\$20,573	49
of which, in life sciences	34%	24%		of which, in life sciences	50%	55%	
in engineering	22%	23%		in environmental sciences	23%	7%	
in physical sciences	20%	14%		in physical sciences	8%	10%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	37	36,143	46	expenditures, 1993 (millions)	\$270	\$163,994	51
S&E graduate students, 1994				Number of SBIR awards, 1990-94	3	18,023	49
in doctorate-granting institutions	992	438,694	48	Patents issued to state residents, 1995	49	55,717	49
Population, 1995 (000s)	480	262,755	51	Gross state product, 1992 (billions)	\$13.2	\$5,994.1	49
Civilian labor force, 1995 (000s)	256	132,281	51	of which, agriculture	4%	2%	
Personal income per capita, 1995	\$21,321	\$22,788	28	manufacturing, mining, construction	35%	23%	
Federal spending				transportation, communication, utilities	17%	9%	
Total expenditures, 1995 (millions)	\$2,506	\$1,326,294	51	wholesale and retail trade	11%	16%	
R&D obligations, 1994 (millions)	\$37	\$65,654	50	finance, insurance, real estate	12%	18%	
				services	9%	20%	
				government	13%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in Wyoming by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	36,576	8,366	0	9,754	12,535	5,036	885	50
<b>Department of Agriculture</b>	6,954	4,390	0	0	2,550	14	0	42
<b>Department of Commerce</b>	0	0	0	0	0	0	0	na
<b>Department of Defense</b>	2,336	4	0	0	2,332	0	0	48
<b>Department of Energy</b>	9,866	0	0	4,878	183	4,805	0	33
<b>Dept. of Health &amp; Human Services</b>	1,192	0	0	0	670	200	322	51
<b>Department of the Interior</b>	4,384	3,972	0	0	412	0	0	32
<b>Department of Transportation</b>	5,832	0	0	4,876	376	17	563	20
<b>Environmental Protection Agency</b>	40	0	0	0	40	0	0	48
<b>Nat'l Aeronautics &amp; Space Admin.</b>	960	0	0	0	960	0	0	45
<b>National Science Foundation</b>	5,012	0	0	0	5,012	0	0	46
<b>State rank</b>	50	48	na	44	50	35	48	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.

# Puerto Rico

## Science and Engineering Profile

	Puerto Rico	U.S.		Puerto Rico	U.S.
Doctoral scientists, 1993	787	430,332	Total R&D performance, 1993 (millions)	N/A	\$161,427
Doctoral engineers, 1993	146	81,293	Industry R&D, 1993 (millions)	N/A	\$117,622
S&E doctorates awarded, 1995	33	26,482	Academic R&D, 1994 (millions)	\$51	\$20,573
of which, in psychology	82%	13%	of which, in life sciences	76%	55%
in physical sciences	18%	14%	in physical sciences	7%	10%
in other S&E fields	0%	N/A	in engineering	6%	16%
S&E postdoctorates, 1994			Higher education current-fund expenditures, 1993 (millions)	\$843	\$163,994
in doctorate-granting institutions	15	36,143			
S&E graduate students, 1994			Number of SBIR awards, 1990-94	1	18,023
in doctorate-granting institutions	2,786	438,694	Patents issued to state residents, 1995	20	55,717
Population, 1995 (000s)	3,703	262,755	Gross state product, 1992 (billions)	\$34.6	\$5,994.1
Civilian labor force, 1995 (000s)	1,245	132,281	of which, agriculture	1%	2%
Personal income per capita, 1995	\$7,296	\$22,788	manufacturing, mining, construction	43%	23%
			transportation, communication, utilities	8%	9%
			wholesale and retail trade	14%	16%
Federal spending			finance, insurance, real estate	13%	18%
Total expenditures 1995 (millions)	\$9,939	\$1,326,292	services	10%	20%
R&D obligations 1994 (millions)	\$51	\$65,654	government	11%	12%

U.S. totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields. The data source for Puerto Rico's population, personal income per capita, number of SBIR awards, and gross state product is as follows: *Economic Report to the Governor*, Puerto Rico Planning Board, San Juan, Puerto Rico.

N/A = not available

## Federal Obligations for Research and Development in Puerto Rico by Agency and Performer: Fiscal Year 1994 (Thousands of dollars)

	Total	Federal Intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government
Total, all agencies	50,502	7,216	10,035	0	30,616	100	2,535
Department of Agriculture	9,608	5,277	0	0	4,331	0	0
Department of Commerce	446	0	0	0	280	0	166
Department of Defense	1,393	0	0	0	1,393	0	0
Department of Energy	68	0	0	0	68	0	0
Dept. of Health & Human Services	21,632	0	0	0	19,561	100	1,971
Department of the Interior	2,039	1,939	0	0	100	0	0
Department of Transportation	551	0	0	0	153	0	398
Environmental Protection Agency	395	0	0	0	395	0	0
Nat'l Aeronautics & Space Admin.	0	0	0	0	0	0	0
National Science Foundation	14,370	0	10,035	0	4,335	0	0

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

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na = not applicable